

SONY®

3-062-657-11(3)

CD/DVD Player

Operating Instructions



DVP-S350

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture. To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

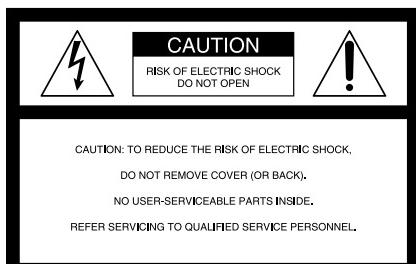
CAUTION

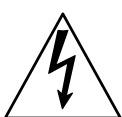
The use of optical instruments with this product will increase eye hazard. As the laser beam used in this CD/DVD player is harmful to eyes, do not attempt to disassemble the cabinet.

Refer servicing to qualified personnel only.

CAUTION-
Laser radiation when open.
DO NOT STARE INTO BEAM.

This label is located on the Laser protective housing inside the enclosure.



 This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

 This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION
TO PREVENT ELECTRIC SHOCK
MATCH WIDE BLADE OF PLUG TO
WIDE SLOT, FULLY INSERT.

Welcome!

Thank you for purchasing this Sony CD/DVD Player. Before operating the unit, please read this manual thoroughly and retain it for future reference.

For customers in the U.S.A

Owner's Record

The model and serial numbers are located at the rear of the unit. Record the serial number in the space provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. DVP-S350

Serial No. _____

CAUTION

You are cautioned that any change or modifications not expressly approved in this manual could void your authority to operate this equipment.

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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About This Manual

Conventions

- Instructions in this manual describe the controls on the player. You can also use the controls on the remote if they have the same or similar names as those on the player.
- The icons on the right are used in this manual:

Icon	Meaning
	Indicates that you can use only the remote to do the task.
	Indicates tips and hints for making the task easier.
	Indicates that the function is for DVD VIDEOS.
	Indicates that the function is for VIDEO CDs.
	Indicates that the function is for Audio CDs.

This Player Can Play the Following Discs

	DVD VIDEOS		VIDEO CDS		Audio CDS	
Disc logo						
Contents	Audio + Video		Audio + Video		Audio	
Disc size	12 cm	8 cm	12 cm	8 cm	12 cm	8 cm (CD single)
Play time	About 4 h (for single-sided DVD)/ about 8 h (for double-sided DVD)	About 80 min. (for single-sided DVD)/ about 160 min. (for double-sided DVD)	74 min.	20 min.	74 min.	20 min.

The "DVD VIDEO" logo is a trademark.

This player conforms to the NTSC color system. You cannot play discs recorded in other color systems such as PAL or SECAM.

Region code of DVDs you can play on this unit

Your DVD player has a region code printed on the back of the unit and will only play DVDs that are labeled with identical region codes.

DVDs labeled  will also play on this unit.

If you try to play any other DVD, the message "Playback prohibited by area limitations." will appear on the TV screen.

Depending on the DVD, no region code indication may be labeled even though playing the DVD is prohibited by area restrictions.



Region code

Note on playback operations of DVDs and VIDEO CDs

Some playback operations of DVDs and VIDEO CDs may be intentionally fixed by software producers. Since this player plays DVDs and VIDEO CDs according to the disc contents the software producers designed, some playback features may not be available. Also refer to the instructions supplied with the DVDs or VIDEO CDs.

Terms for discs

• Title

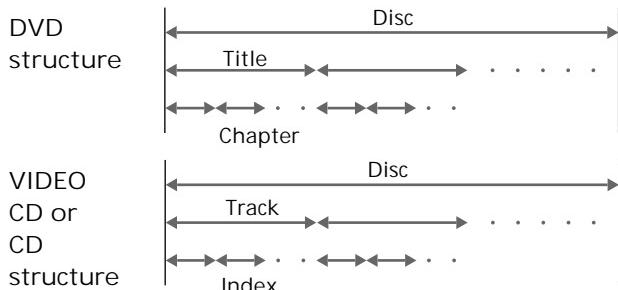
The longest section of a picture or music feature on a DVD, the movie, etc. in video software, or the name of an album in audio software.

• Chapter

Sections of a picture or a music feature that are smaller than titles. A title is composed of several chapters. Each chapter is assigned a chapter number enabling you to locate the chapter you want. Depending on the disc, no chapters may be recorded.

• Track

Sections of a picture or a music feature on a VIDEO CD or a CD. Each track is assigned a track number enabling you to locate the track you want.



• Index (CD) / Video Index (VIDEO CD)

A number that divides a track into sections to easily locate the point you want on a VIDEO CD or a CD. Depending on the disc, no indexes may be recorded.

• Scene

On a VIDEO CD with PBC (playback control) functions, the menu screens, moving pictures and still pictures are divided into sections called "scenes." Each scene is assigned a scene number enabling you to locate the scene you want.

Note on PBC (Playback Control) (VIDEO CDs)

This player conforms to Ver. 1.1 and Ver. 2.0 of VIDEO CD standards. You can enjoy two kinds of playback according to the disc type.

Disc type	You can
VIDEO CDs without PBC functions (Ver. 1.1 discs)	Enjoy video playback (moving pictures) as well as music.
VIDEO CDs with PBC functions (Ver. 2.0 discs)	Play interactive software using menu screens displayed on the TV screen (PBC Playback), in addition to the video playback functions of Ver. 1.1 discs. Moreover, you can play high-resolution still pictures if they are included on the disc.

Discs that the player cannot play

The player cannot play discs other than the ones listed in the table on page 4. CD-Rs, CD-ROMs including PHOTO CDs, data sections in CD-EXTRAs, DVD-ROMs, DVD-audio, HD (high density) layer of Super Audio CD etc., cannot be played.

* "DTS" is a trademark of Digital Theater Systems, Inc.

When playing DTS*-encoded CDs, excessive noise will be heard from the analog stereo outputs. To avoid possible damage to the audio system, the consumer should take proper precautions when the analog stereo outputs of the DVD player are connected to an amplification system. To enjoy DTS Digital Surround™ playback, an external 5.1-channel DTS Digital Surround™ decoder system must be connected to the digital output of the DVD player.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Precautions

On safety

- Caution – The use of optical instruments with this product will increase eye hazard.
- Should any solid object or liquid fall into the cabinet, unplug the player and have it checked by qualified personnel before operating it any further.

On power sources

- The player is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the player itself has been turned off.
- If you are not going to use the player for a long time, be sure to disconnect the player from the wall outlet. To disconnect the AC power cord (mains lead), grasp the plug itself; never pull the cord.
- Should the AC power cord (mains lead) need to be changed, have it done at a qualified service shop only.

On placement

- Place the player in a location with adequate ventilation to prevent heat build-up in the player.
- Do not place the player on a soft surface such as a rug that might block the ventilation holes on the bottom.
- Do not place the player in a location near heat sources, or in a place subject to direct sunlight, excessive dust or mechanical shock.

On operation

- If the player is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lenses inside the player. Should this occur, the player may not operate properly. In this case, remove the disc and leave the player turned on for about half an hour until the moisture evaporates.
- When you move the player, take out any discs. If you don't, the disc may be damaged.

On adjusting volume

- Do not turn up the volume while listening to a section with very low level inputs or no audio signals. If you do, the speakers may be damaged when a peak level section is played.

On cleaning

- Clean the cabinet, panel and controls with a soft cloth slightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzine.

If you have any questions or problems concerning your player, please consult your nearest Sony dealer.

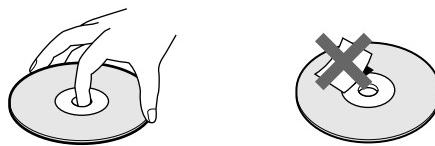
IMPORTANT NOTICE

Caution: The enclosed DVD player is capable of holding a still video image or on-screen display image on your television screen indefinitely. If you leave the still video image or on-screen display image displayed on your TV for an extended period of time you risk permanent damage to your television screen. Projection televisions are especially susceptible to this.

Notes About the Discs

On handling discs

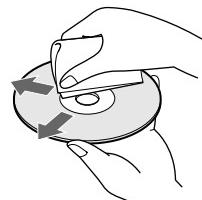
- To keep the disc clean, handle the disc by its edge. Do not touch the surface.
- Do not stick paper or tape on the disc. If there is glue (or a similar substance) on the disc, remove the glue completely before using the disc.



- Do not expose the disc to direct sunlight or heat sources such as hot air ducts, or leave it in a car parked in direct sunlight as the temperature may rise considerably inside the car.
- After playing, store the disc in its case.

On cleaning

- Before playing, clean the disc with a cleaning cloth. Wipe the disc from the center out.



- Do not use solvents such as benzine, thinner, commercially available cleaners or anti-static spray intended for vinyl LPs.

On novelty discs

- Do not use irregularly shaped CDs such as heart- or star-shaped CDs as they may cause the player to malfunction.

Getting Started

This section describes how to hook up the CD/DVD player to a TV (with audio/video input jacks) and/or an AV receiver (amplifier). You cannot connect this player to a TV which does not have a video input connector. Be sure to turn off the power of each component before making the connections.

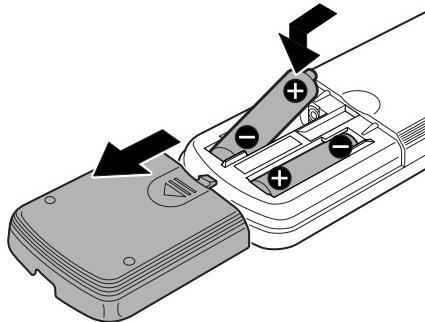
Unpacking

Check that you have the following items:

- Audio/video connecting cord (1)
- Remote commander (remote) (1)
- Size AA (R6) batteries (2)

Inserting batteries into the remote

You can control the player using the supplied remote. Insert two Size AA (R6) batteries by matching the + and - ends on the batteries to the markings inside the compartment. When using the remote, point it at the remote sensor  on the player.



 You can control TVs or AV receivers (amplifiers) using the supplied remote
See page 53.

Notes

- Do not leave the remote in an extremely hot or humid place.
- Do not drop any foreign object into the remote casing, particularly when replacing the batteries.
- Do not expose the remote sensor to direct sunlight or lighting apparatuses. Doing so may cause a malfunction.
- If you do not use the remote for an extended period of time, remove the batteries to avoid possible damage from battery leakage and corrosion.

TV Hookups

This connection is for listening to the sound through TV speakers (L: left, R: right). Refer to the instructions supplied with the component to be connected.

 You can enjoy surround sound using your TV's built-in speakers

You can use 3D sound imaging to create virtual rear speakers from the sound of built-in TV speakers without using actual rear speakers (VES TV: Virtual Enhanced Surround TV). For details, see page 33.

Required cords

Audio/video connecting cord (supplied) (1)



S video cord (not supplied) (1)

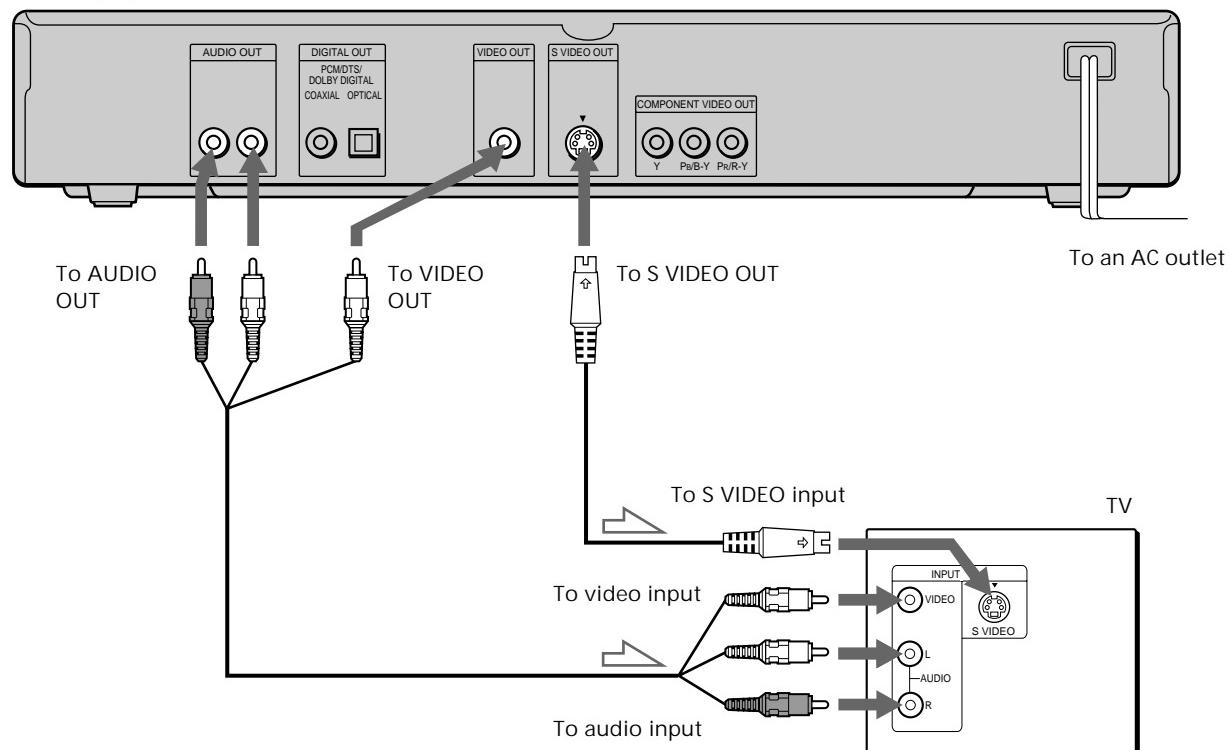


When connecting the cords, be sure to match the color-coded cord to the appropriate jacks on the components: Yellow (video) to Yellow, Red (right) to Red and White (left) to White. Be sure to make connections firmly to avoid hum and noise.

If your TV has an S video input connector, connect the component via the S VIDEO OUT connector using an S video cord (not supplied). You will get a better picture.

Refer to the instructions supplied with the TV to be connected.

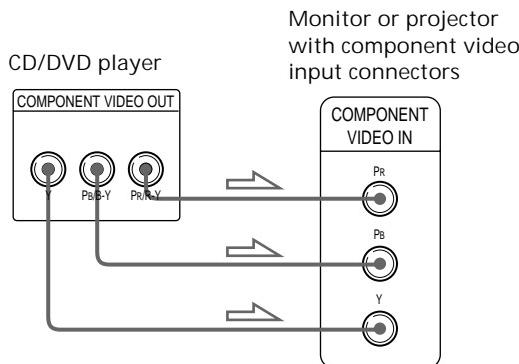
CD/DVD player



 : Signal flow

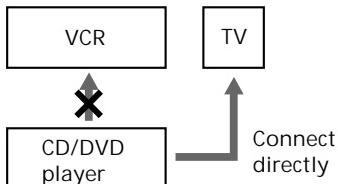
If you connect the player to a monitor or projector having component video input connectors that conform to output signals from the COMPONENT VIDEO OUT (Y, Pb/B-Y, Pr/R-Y) connectors on the player

Connect the component via the COMPONENT VIDEO OUT connectors using three video connecting cords (not supplied) of the same kind. You will get a better picture.



Notes

- Refer to the instructions supplied with the component to be connected.
- Do not connect this player to a video deck. If you do, noise may appear in the picture.



- Depending on the TV or receiver (amplifier), sound distortion may occur because the audio output level is high. In this case, set "AUDIO ATT" in "AUDIO SETUP" to "ON" in the setup display. For details, see page 51.

Setups for the player

Some setup adjustments are necessary for the player depending on the TV or other components to be connected.

Use the setup display to change the various settings. For details on using the setup display, see page 43.

- To connect the player to a normal TV
In the setup display, set "TV TYPE" in "SCREEN SETUP" to "4:3 LETTER BOX" (default setting) or "4:3 PAN SCAN." For details, see page 47.
- To connect the player to a TV having the WIDE MODE function
In the setup display, set "TV TYPE" in "SCREEN SETUP" to "16:9/4:3 WIDE MODE." For details, see page 47.
- To connect the player to a wide-screen TV
In the setup display, set "TV TYPE" in "SCREEN SETUP" to "16:9/4:3 WIDE MODE." For details, see page 47.

Receiver (Amplifier) Hookups

This connection is for listening to the sound through speakers connected to a receiver lacking a built-in DTS or Dolby® Digital decoder. Refer as well to the instructions supplied with the component to be connected.

 You can enjoy surround sounds even if you connect front speakers only

You can use 3D sound imaging to create virtual rear speakers from the sound of the front speakers (L, R) without using actual rear speakers (VES:Virtual Enhanced Surround). For details, see page 33.

 If you have a digital component with a built-in DTS or Dolby Digital decoder

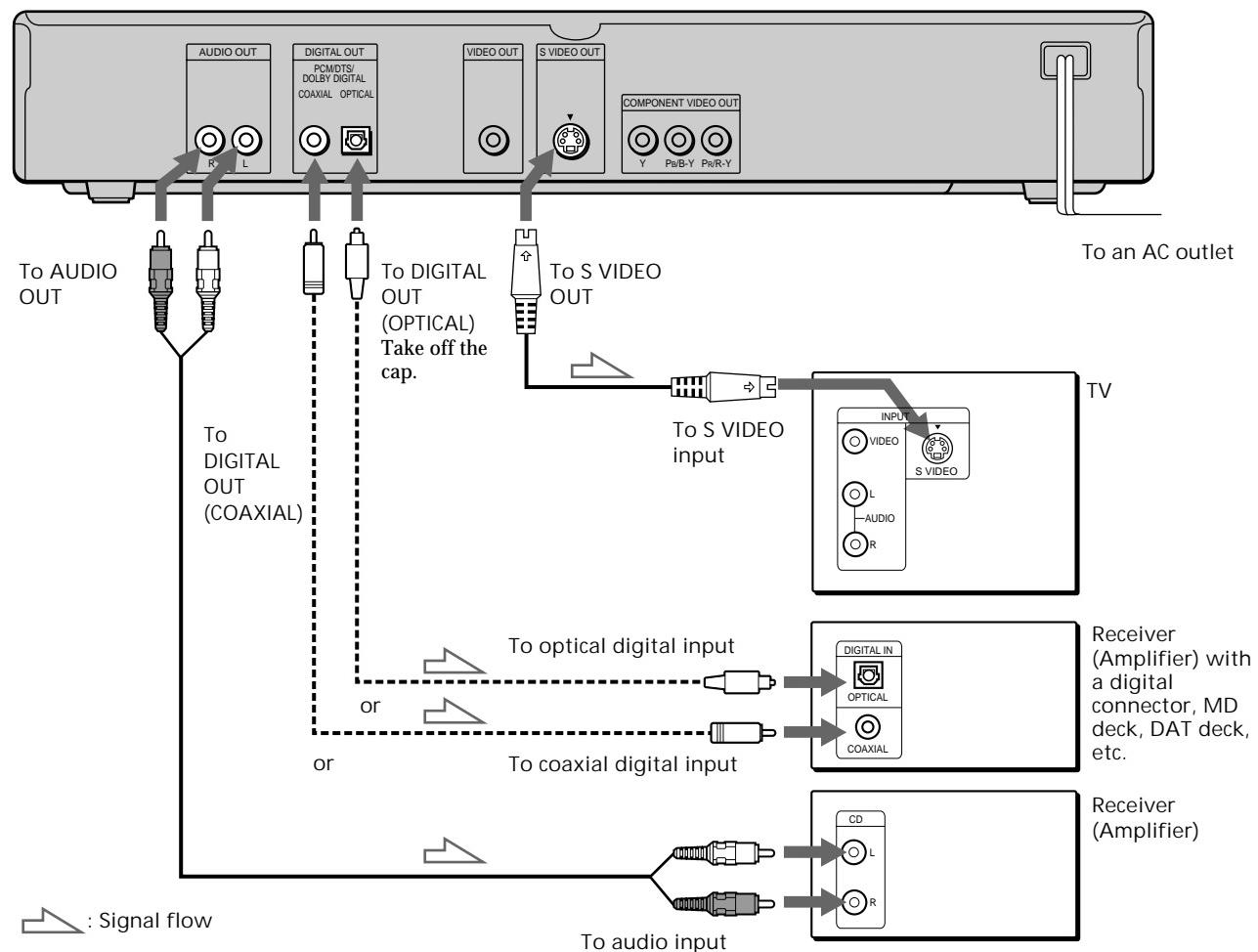
You can enjoy multi-channel surround sound by connecting the component via the DIGITAL OUT OPTICAL or COAXIAL connector using an optical or coaxial digital connecting cord (not supplied). For details on hookups and settings, see page 12.

* Manufactured under license from Dolby Laboratories.

“Dolby”, “Pro Logic” and the double-D symbol are trademarks of Dolby Laboratories.

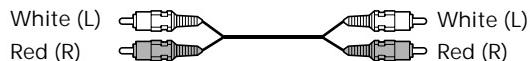
Confidential unpublished works. ©1992-1997 Dolby Laboratories. All rights reserved.

CD/DVD player



Required cords

Audio connecting cord (not supplied) (1)



S video cord (not supplied) (1)



When connecting the cords, be sure to match the color-coded cord to the appropriate jacks on the components: Red (right) to Red and White (left) to White. Be sure to make connections firmly to avoid hum and noise.

If you have a digital component such as a receiver (amplifier) with a digital connector, DAT or MD, connect the component via the DIGITAL OUT OPTICAL or COAXIAL connector using an optical or coaxial digital connecting cord (not supplied).

Optical digital connecting cord (not supplied) (1)



Coaxial digital connecting cord (not supplied) (1)



Notes

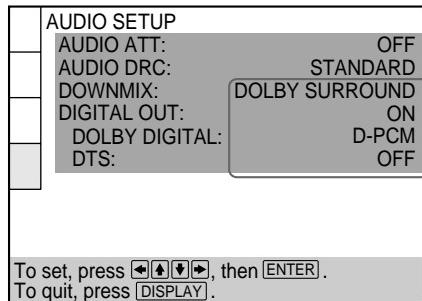
- You cannot enjoy a picture with an S video signal if your TV does not conform to the S video signal. When your TV does not have an S VIDEO input, connect the component via the VIDEO INPUT connector using the audio/video connecting cord (supplied) instead of the S video cord. For details, see page 8.
- Refer to the instructions supplied with your TV.
- Refer to the instructions supplied with the component to be connected.
- You cannot make digital audio recordings of discs recorded in multi-channel surround format directly using an MD deck or DAT deck.
- When you connect the component via the DIGITAL OUT OPTICAL or COAXIAL connector, set Virtual Enhanced Surround (VES) to "OFF." Otherwise, the player will not output signals from the DIGITAL OUT OPTICAL or COAXIAL connector, if you set "DOLBY DIGITAL" in "AUDIO SETUP" to "D-PCM."

When you have made the connections using an optical or coaxial digital connecting cord, do not set "DOLBY DIGITAL" to "DOLBY DIGITAL" and "DTS" to "ON." If you do, a loud noise will suddenly come out from the speakers, affecting your ears or causing the speakers to be damaged.

Setups for the player

Some setup adjustments are necessary for the player depending on the components to be connected. Use the setup display to change the various settings. For details on using the setup display, see page 43.

- To listen to the sound through speakers connected to a receiver (amplifier) which has a digital connector and lacks a built-in DTS or Dolby Digital decoder, or to output the sound to a digital component such as a DAT or MD deck Set the "AUDIO SETUP" items in the setup display (page 51) as shown in the illustration below. These are the default settings.



Set "VES" to "OFF" in the Control Menu display (page 33). When you select any VES mode other than "OFF," no sound will come from the speakers.

Note

When you output the signals which do not reproduce the Dolby Surround (Pro Logic) effect from the DIGITAL OUT OPTICAL or COAXIAL connector, set "DOWNMIX" to "NORMAL" in "AUDIO SETUP" in the setup display (page 52).

5.1 Channel Surround Hookups

With DVDs which contain DTS or Dolby Digital sound, you can enjoy the surround sound while producing the effect of being in a movie theater or a concert hall using a digital component with a built-in DTS or Dolby Digital decoder (not supplied). The player outputs the surround sound signals from the DIGITAL OUT OPTICAL and COAXIAL connectors.

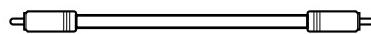
Using a receiver (amplifier) having the OPTICAL or COAXIAL connector and 6 speakers, you can enjoy even greater real audio presence in the comfort of your own home.

Required cords

Optical digital connecting cord* (not supplied) (1)



Coaxial digital connecting cord* (not supplied) (1)



S video cord (not supplied) (1)



* Connect the component via the DIGITAL OUT OPTICAL or COAXIAL connector using an optical or coaxial digital connecting cord (not supplied). You do not need to connect both of these cords. See the figure on the next page.

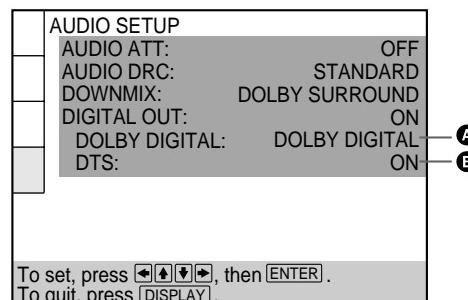
Notes

- Do not connect the power cord to an AC outlet or press the POWER switch before completing all connections.
- Refer to the instructions supplied with the component to be connected.
- The cord connectors should be fully inserted into the jacks. A loose connection may cause hum and noise.

Setups for the player

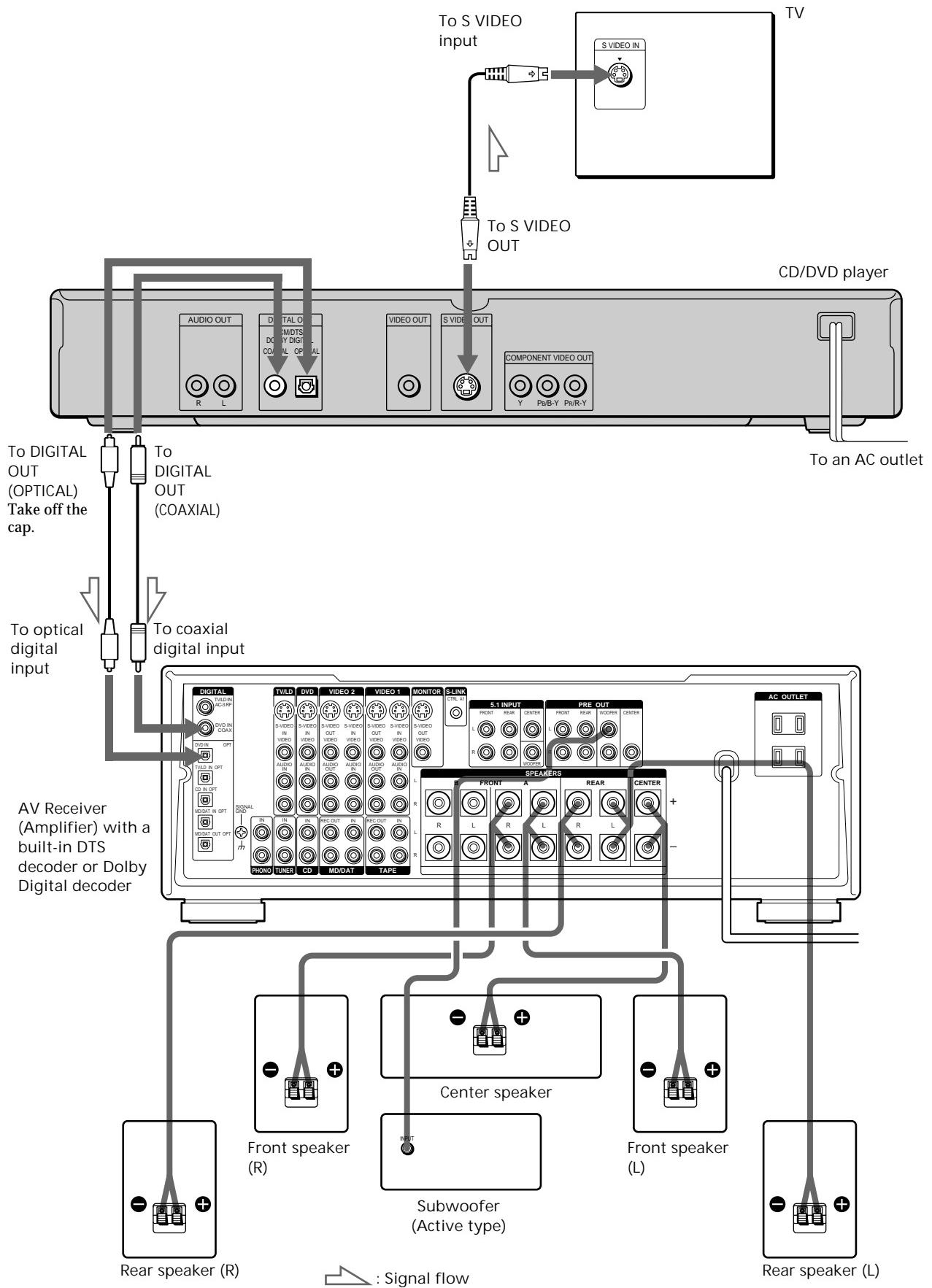
Some setup adjustments are necessary for the player depending on the components to be connected. Use the setup display to change the various settings. For details on using the setup display, see page 43.

- When you connect an audio component with a built-in Dolby Digital decoder **A**
Set "DIGITAL OUT" in "AUDIO SETUP" to "ON" and then set "DOLBY DIGITAL" to "DOLBY DIGITAL" in the setup display. (page 52)
- When you connect an audio component with a built-in DTS decoder **B**
Set "DIGITAL OUT" in "AUDIO SETUP" to "ON" and then set "DTS" to "ON" in the setup display. (page 52)



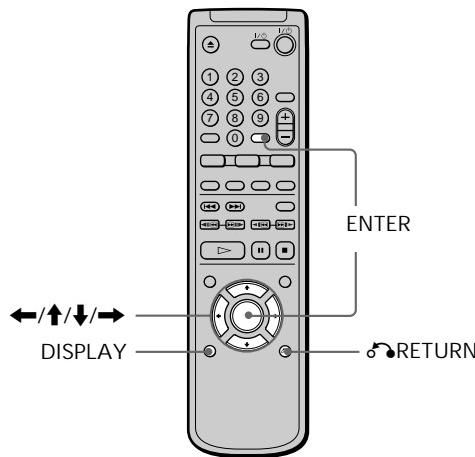
Notes

- When you do not connect an audio component with a built-in Dolby Digital decoder, do not set "DOLBY DIGITAL" to "DOLBY DIGITAL."
- When you do not connect an audio component with a built-in DTS decoder, do not set "DTS" to "ON."

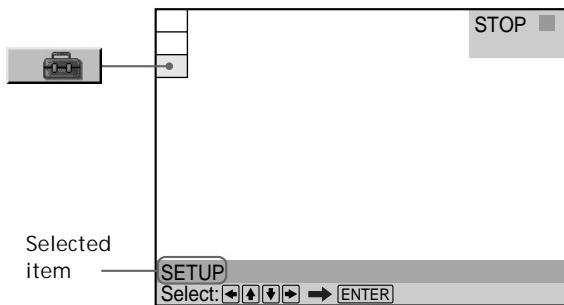


Selecting the Language for the On-Screen Display

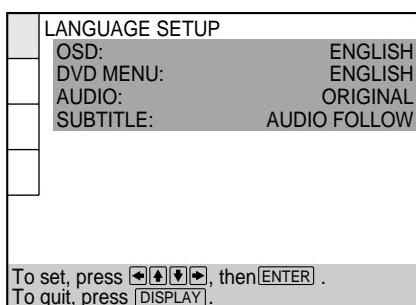
You can select the language for the setup display, the Control Menu display or the messages displayed on the screen. The default setting is "ENGLISH."



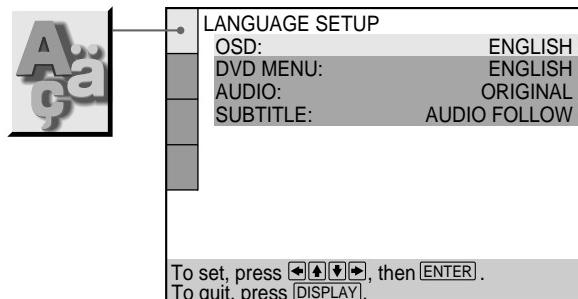
- When the player is in stop mode, press DISPLAY and select "SETUP" using \uparrow/\downarrow .
The on-screen menu items are different depending on whether there is a disc in the player or not.



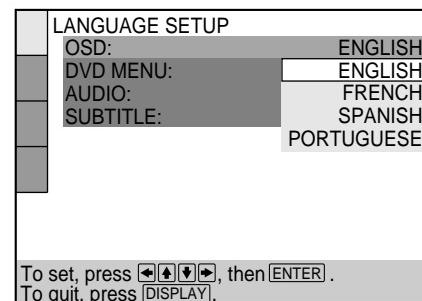
- Press ENTER.
The setup display appears on the TV screen.



- Select "LANGUAGE SETUP" using \uparrow/\downarrow , and then press ENTER.



- Select "OSD" using \uparrow/\downarrow , then press \rightarrow or ENTER.
The languages you can select are displayed.



- Select the desired language using \uparrow/\downarrow , then press ENTER.



- Press DISPLAY.
The setup display disappears.
- Press DISPLAY repeatedly to turn off the on-screen menu.

To return to the previous screen
Press **RETURN**.

To quit while making a selection
Press **DISPLAY**.

Note

The languages you can select are the ones displayed in step 4.
For details, see page 46.

Playing Discs

This chapter describes how to play a DVD/CD/VIDEO CD.

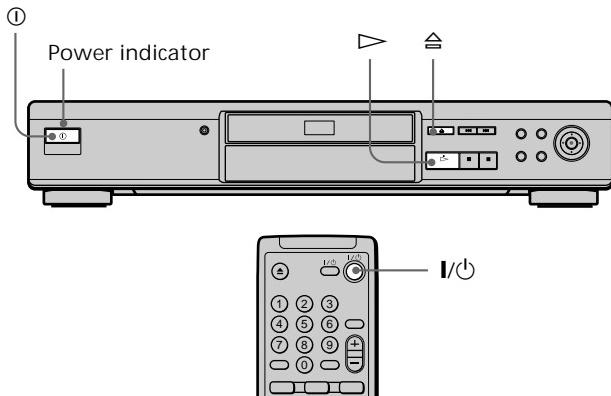
Playing Discs

DVD

VIDEO
CD

CD

Depending on the DVD or VIDEO CD, some operations may be different or restricted. Refer to the instructions supplied with your disc.



1 Turn on your TV.

Turn on the TV and select the video input so that you can view the pictures from this player.

When using a receiver (amplifier)

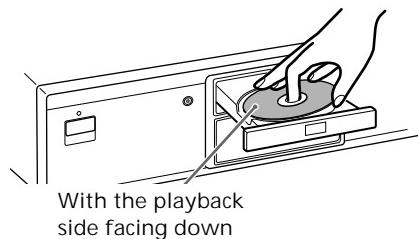
Turn on the receiver (amplifier) and select the appropriate position so that you can listen to the sound from this player.

2 Press ① on the player.

The player enters standby mode and the power indicator lights up in red.

3 Press ② on the player, and place a disc on the disc tray.

The player automatically turns on and the power indicator lights up in green.



4 Press ▶.

The disc tray closes and the player starts playback (continuous play). Adjust the volume on the TV or the receiver (amplifier).

After following Step 4

■ When playing a DVD

A DVD menu or title menu may appear on the TV screen (see page 20).

■ When playing a VIDEO CD

A menu may appear on the TV screen depending on the VIDEO CD. You can play the disc interactively, following the instructions on the menu. (PBC Playback, see page 21.)

To turn on the player

Press ① on the player. The player enters standby mode and the power indicator lights up in red. Then press **I/O** on the remote. The player turns on and the power indicator lights up in green. In standby mode, the player also turns on by pressing \triangle on the player or by pressing \triangleright .

To turn off the player

Press **I/O** on the remote. The player enters standby mode and the power indicator lights up in red.

To disconnect the power of the player, press ① on the player.

Notes on playing DTS sound tracks on a CD

- Do not play DTS sound tracks without first connecting the player to an audio component having a built-in DTS decoder. The player outputs the DTS signal via the DIGITAL OUT OPTICAL and COAXIAL connectors even if "DTS" in "AUDIO SETUP" is set to "OFF" in the setup display, and may affect your ears or cause your speakers to be damaged.
- Set the sound to "STEREO" when you play DTS sound tracks on a CD. (See "Changing the Sound" on page 30.) If you set the sound to "1/L" or "2/R," no sound will come from the DIGITAL OUT OPTICAL and COAXIAL connectors.
- If you play a CD with a DTS sound track, a loud noise may come out from the AUDIO OUT connectors, affecting your ears or causing the speakers to be damaged.

Notes on playing DTS sound tracks on a DVD

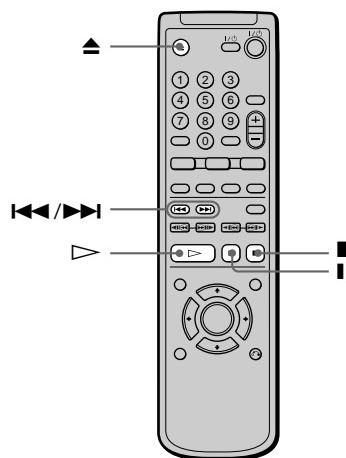
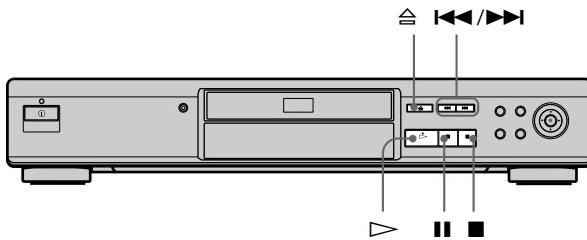
The signals of the DTS sound tracks are output from the DIGITAL OUT OPTICAL and COAXIAL connectors only. No sound will be output from the AUDIO OUT connectors.

- If the player is connected to an audio component lacking a built-in DTS decoder, do not set "DTS" in "DIGITAL OUT" to "ON" in the setup display. Otherwise, when you play the DTS sound track, a loud noise will come out from the speakers, affecting your ears or causing the speakers to be damaged.
- When you set "DTS" in "AUDIO SETUP" to "OFF," no sound will come out from the DIGITAL OUT OPTICAL and COAXIAL connectors even if you play DTS sound tracks on DVDs.

Notes

- If you leave the player or the remote in pause or stop mode for 15 minutes, the screen saver image appears automatically. To make the screen saver image go away, press \triangleright . (If you want to set the screen saver function to off, see page 47.)
- While playing a disc, do not turn off the player by pressing ①. Doing so may cancel the settings of the menu. When you turn off the player, press **■** first to stop playback and then press **I/O** on the remote. After the power indicator lights up in red and the player enters standby mode, press ① on the player.

Additional operations



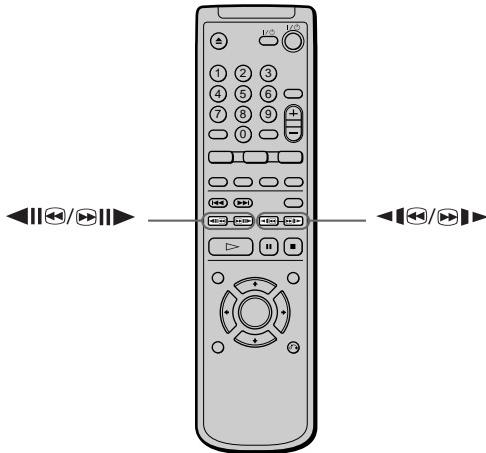
To	Operation
Stop	Press ■
Pause	Press II
Resume play after pause	Press II or \triangleright
Go to the next chapter, track or scene in continuous play mode	Press ▶▶
Go back to the preceding chapter, track or scene in continuous play mode	Press ◀◀
Stop play and remove the disc	Press ▲

You can play discs in various modes such as Program Play using the on-screen menu (Control Menu). For Control Menu operations, see page 24.

Searching for a Particular Point on a Disc



You can locate a particular point on a disc at the desired speed by monitoring the picture.



Note

Depending on the DVD/VIDEO CD, you may not be able to do some of the operations described.

Locating a point quickly (Search)

While a disc is playing, keep pressing **<||>** to locate a point in playback direction at the FF1 $\blacktriangleright\blacktriangleright$ * speed or keep pressing **<||>** to locate a point in opposite direction at the FR1 $\blacktriangleleft\blacktriangleleft$ * speed. When you find the point you want, release the button to return to normal speed playback.

* The FF1 $\blacktriangleright\blacktriangleright$ /FR1 $\blacktriangleleft\blacktriangleleft$ playback speed is the one of the scan speed described below.

Locating a point quickly by playing a disc in fast forward or fast reverse (Scan)

While a disc is playing, press **<||>** to locate a point in playback direction, or press **<||>** to locate a point in opposite direction. When you find the point you want, press **>** to return to normal speed playback.

Each time you press the **<||>** or **<||>** button during Scan, the playback speed changes. Three speeds are available. With each press, the display changes as follows:

Playback direction

x2 \blacktriangleright (DVD/CD only) → FF1 $\blacktriangleright\blacktriangleright$ → FF2 $\blacktriangleright\blacktriangleright$

Opposite direction

x2 \blacktriangleleft (DVD only) → FR1 $\blacktriangleleft\blacktriangleleft$ → FR2 $\blacktriangleleft\blacktriangleleft$

The x2 \blacktriangleright /x2 \blacktriangleleft playback speed is about twice the normal speed. The FF2 $\blacktriangleright\blacktriangleright$ /FR2 $\blacktriangleleft\blacktriangleleft$ playback speed is faster than FF1 $\blacktriangleright\blacktriangleright$ /FR1 $\blacktriangleleft\blacktriangleleft$.

Locating a point slowly by watching the screen (Slow-motion Play)



You can use this function only for DVDs or VIDEO CDs. When the player is in the pause mode, press **<||>** to locate a point in playback direction, or press **<||>** to locate a point in opposite direction. When you find the point you want, press **>** to return to the normal speed playback.

Each time you press the **<||>** or **<||>** button during Slow-motion play, the playback speed changes. Two speeds are available. With each press, the display changes as follows:

Playback direction

SLOW1 $\blacktriangleright\blacktriangleright$ ↔ SLOW2 $\blacktriangleright\blacktriangleright$

Opposite direction (DVD only)

SLOW1 $\blacktriangleleft\blacktriangleleft$ ↔ SLOW2 $\blacktriangleleft\blacktriangleleft$

The SLOW2 $\blacktriangleright\blacktriangleright$ /SLOW2 $\blacktriangleleft\blacktriangleleft$ playback speed is slower than SLOW1 $\blacktriangleright\blacktriangleright$ /SLOW1 $\blacktriangleleft\blacktriangleleft$.

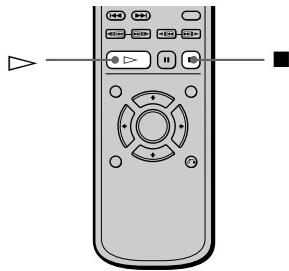
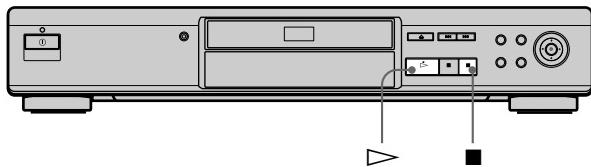
Playing a disc frame by frame



You can use this function only for DVDs or VIDEO CDs. When the player is in the pause mode, press **<||>** to go to the next frame. Press **<||>** to return to the preceding frame (DVD only). To return to normal playback, press **>**.

Resuming Playback from the Point Where You Stopped the Disc (Resume Play)

The player remembers the point where you stopped the disc and when "RESUME" appears on the front panel display, you can resume playback from that point. As long as you do not open the disc tray, Resume Play will work even if the player enters standby mode by pressing **I/O** on the remote.



Notes

- Resume Play may not be available on some DVDs.
- Resume Play is not available in Shuffle or Program Play mode.
- Depending on where you stopped the disc, the player may resume playback from a different point.
- The point where you stopped playing is cleared when:
 - you open or close the disc tray
 - you turn the power off by pressing ① on the player
 - you change the play mode
 - you start playback after selecting a title, chapter or track
 - you change the settings in the setup display

1 While playing a disc, press ■ to stop playback. "RESUME" appears on the front panel display and "Disc will restart from current point. To start from beginning, press [STOP] again." appears on the TV screen.

If "RESUME" does not appear, Resume Play is not available.

2 Press ▷.

The player starts playback from the point where you stopped the disc in Step 1.

 **To play from the beginning of the disc**

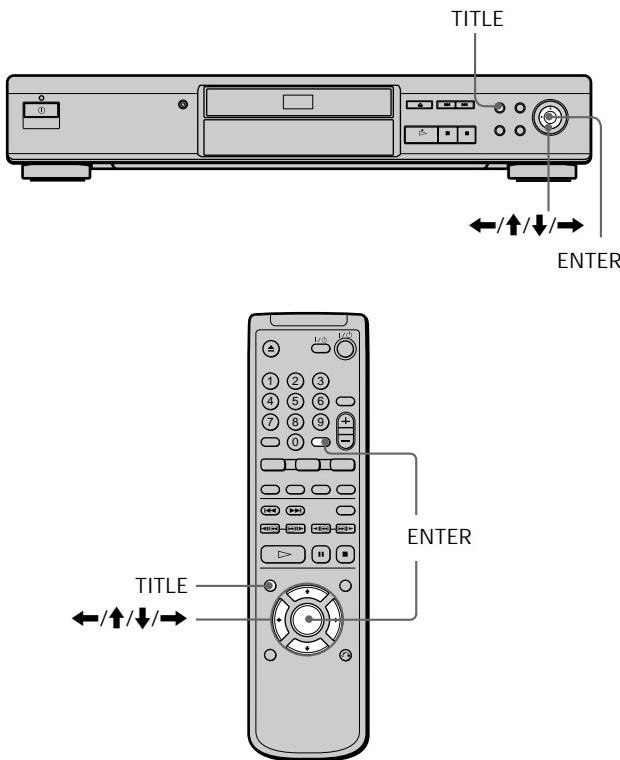
When the playing time appears on the front panel display before you start playing, press ■ to reset the playing time, then press ▷.

Using the DVD's Menu

Some DVDs have a title menu or a DVD menu that is provided with DVDs only.

Using the title menu

A DVD is divided into long sections of a picture or a music feature called "titles." When you play a DVD which contains several titles, you can select the title you want using the title menu.



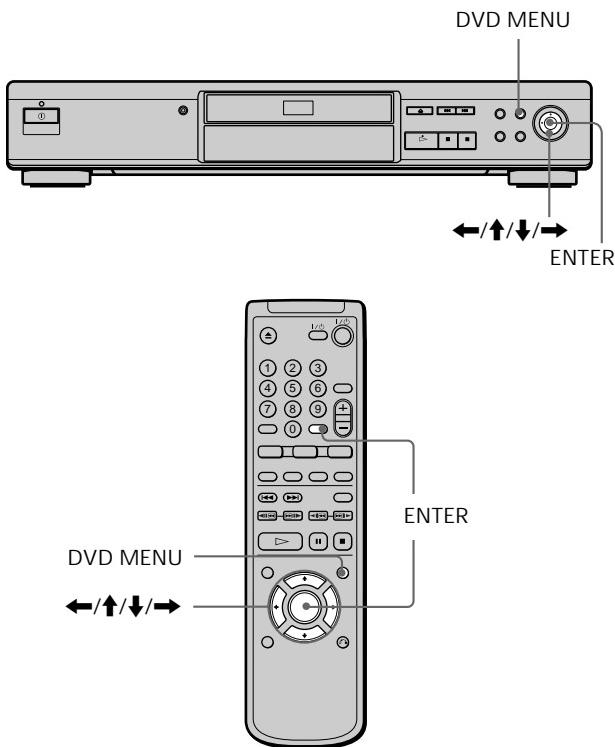
- 1 Press TITLE.
The title menu appears on the TV screen. The contents of the menu vary from disc to disc.
- 2 Press $\leftarrow/\uparrow/\downarrow/\rightarrow$ to select the title you want to play.
Depending on the disc, you can use the number buttons to select the title.
- 3 Press ENTER.
The player starts playing the selected title.

Notes

- On some DVDs, you may not be able to select the title.
- On some DVDs, a "title menu" may simply be called a "menu" or "title" in the instructions supplied with the disc. "Press ENTER." may also be expressed as "Press SELECT."

Using the DVD menu

Some DVDs allow you to select the disc contents using a menu. When you play these DVDs, you can select the language for the subtitles, the language for the sound, etc., using the DVD menu.



- 1 Press DVD MENU.
The DVD menu appears on the TV screen. The contents of the menu vary from disc to disc.
- 2 Press $\leftarrow/\uparrow/\downarrow/\rightarrow$ to select the item you want to change.
Depending on the disc, you can use the number buttons to select the item.
- 3 To change other items, repeat Step 2.
- 4 Press ENTER.

 If you want to select the language for the DVD menu
Change the setting using "DVD MENU" in "LANGUAGE SETUP" in the setup display. For details, see page 46.

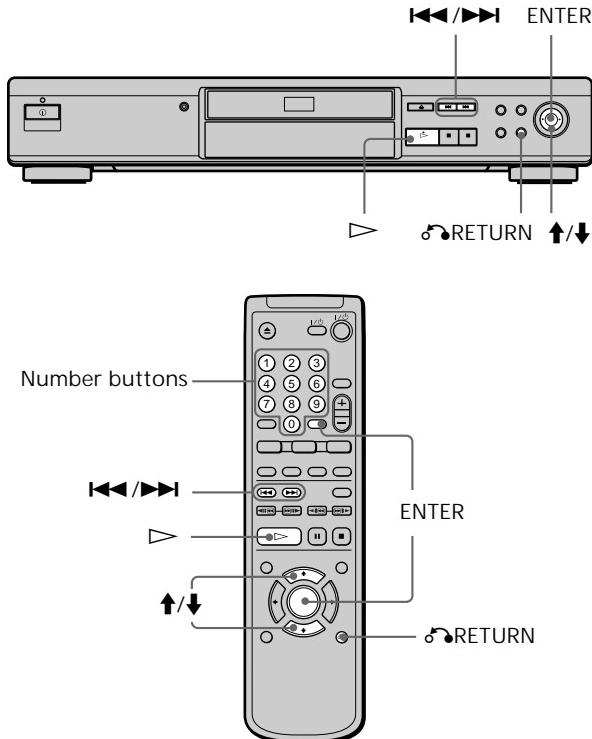
Note

Depending on the DVD, a "DVD menu" may simply be called a "menu" in the instructions supplied with the disc.

Playing VIDEO CDs with PBC Functions (PBC Playback)



When playing VIDEO CDs with PBC (Play Back Control) functions (Ver. 2.0 discs), you can enjoy simple interactive operations, search functions, and other such operations. PBC Playback allows you to play VIDEO CDs interactively by following the menu on the TV screen. On this player, you can use the number buttons, ENTER, $\blacktriangleleft/\triangleright$, \blacktriangleright and $\circlearrowleft\text{RETURN}$ during PBC Playback.



To go back to the menu
Press $\circlearrowleft\text{RETURN}$, \blacktriangleleft , or \blacktriangleright .

To cancel PBC playback of a VIDEO CD with PBC functions and play the disc in continuous play mode

There are two ways.

- Before you start playing, select the track you want using \blacktriangleleft or \blacktriangleright , then press ENTER or \blacktriangleright .
- Before you start playing, select the track number using the number buttons on the remote, then press ENTER or \blacktriangleright . "Play without PBC." appears on the TV screen and the player starts continuous play. You cannot play still pictures such as a menu.

To return to PBC playback, press \blacksquare twice then press \blacktriangleright .

Note

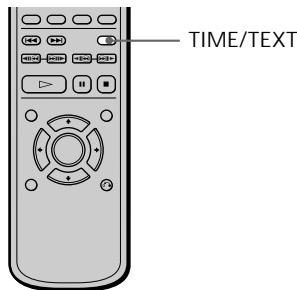
Depending on the VIDEO CD, "Press ENTER" in Step 3 may be expressed as "Press SELECT" in the instructions supplied with the disc.

- 1 Start playing a VIDEO CD with PBC functions by following Steps 1 to 4 in "Playing Discs" on page 16.
- 2 Select the item number you want.
Press \uparrow/\downarrow to select the item number.
You can also select the item number with the number buttons on the remote.
- 3 Press ENTER.
- 4 Follow the instructions in the menu for interactive operations.
Refer to the instructions supplied with the disc, as the operating procedure may differ according to the VIDEO CD.

Using the Front Panel Display

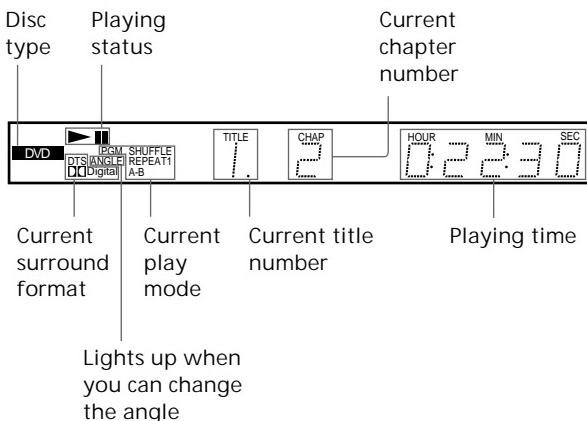


You can check information about the disc, such as the total number of titles or tracks or remaining time, using the front panel display.



When playing back a DVD

Displaying information while playing the disc

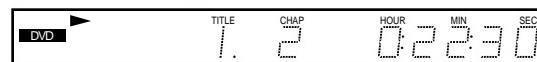


Checking the remaining time

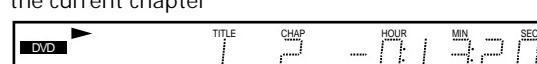
Press TIME/TEXT.

Each time you press TIME/TEXT while playing the disc, the display changes as shown in the following chart.

Playing time and number of the current chapter



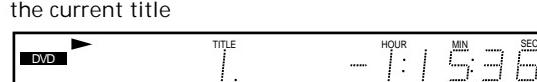
Remaining time of the current chapter



Playing time and number of the current title



Remaining time of the current title



Text



Press TIME/TEXT

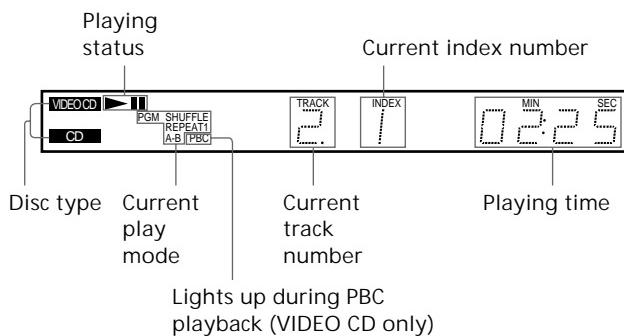
Notes

- On some DVDs, the chapter number or time may not appear or you may not be able to change the front panel display.
- While you are doing Shuffle Play or Program Play, the playing time of the title and the remaining time of the title are not displayed.

When playing back a CD/VIDEO CD



Displaying information while playing a disc



When playing VIDEO CDs with PBC functions

The current scene number is displayed instead of the current track number and the current index number. In this case, the front panel display does not change when you press TIME/TEXT. If TEXT is recorded on the disc, the front panel display changes to the Text display when you press TIME/TEXT (see page 29).

Checking the remaining time

Press TIME/TEXT.

Each time you press TIME/TEXT while playing a disc, the display changes as shown in the following chart.

Playing time and current track number

Remaining time of the current track

Playing time of the disc

Remaining time of the disc

Text

Press TIME/TEXT

Note

While you are doing Shuffle Play, or Program Play, the playing time of the disc and the remaining time of the disc are not displayed.

Using Various Functions with the Control Menu

This chapter describes how to play discs in various modes and how to use the convenient features of the on-screen menu (Control Menu).

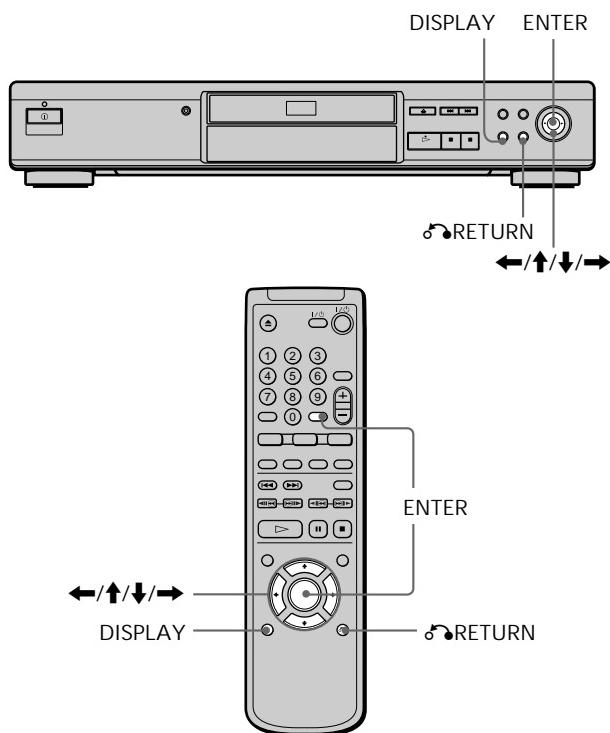
Using the Control Menu Display

DVD VIDEO CD CD

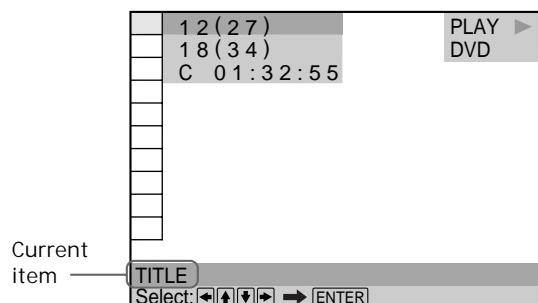
Using the Control Menu display, you can select the starting point, play scenes in any order you like, change the viewing angles, make Digital Cinema Sound settings, and other such operations.

The possible operations are different depending on the kind of disc.

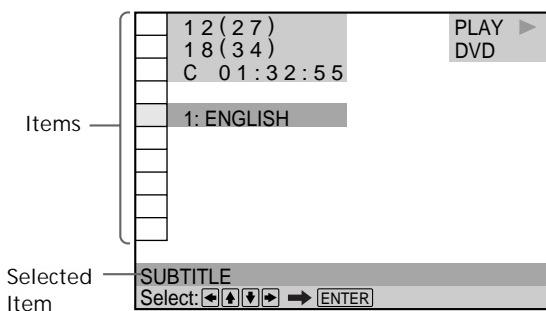
For details on each Control Menu display item, see pages 27 to 42.



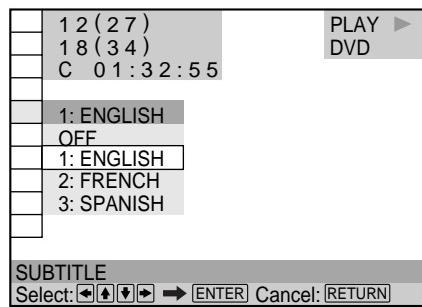
- 1 Press DISPLAY to show the Control Menu display on the TV screen.



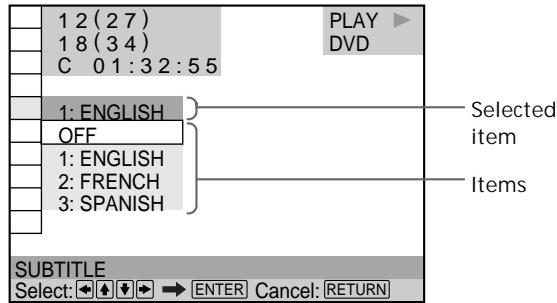
2 Select the item you want using \uparrow/\downarrow .



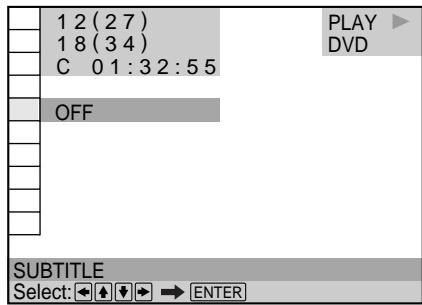
3 Press ENTER.



4 Select the item you want using \uparrow/\downarrow .



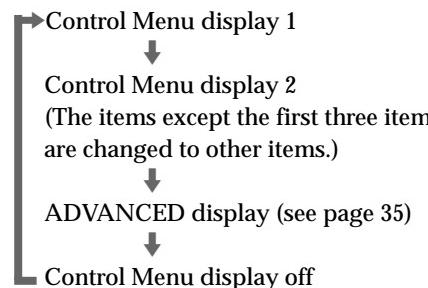
5 Press ENTER.



To cancel while making a selection
Press RETURN .

To display other items

Each time you press DISPLAY, the Control Menu display changes as follows:



The Control Menu display items are different depending on the disc.

You can select some items directly

Some items can be selected by pressing the corresponding button on the remote. In this case, only the item you selected is displayed. For instructions on using the remote, see the pages of each relevant item.

Note

Some Control Menu display items require operations other than selecting the setting. For details on these items, see the relevant pages.

Control Menu Item List

-  TITLE (DVD only) (page 27)/
SCENE (VIDEO CD during PBC playback only) (page 27)/
TRACK (VIDEO CD only) (page 27)
-  CHAPTER (DVD only) (page 27)/
INDEX (VIDEO CD only) (page 27)
-  TRACK (CD only) (page 27)
-  INDEX (CD only) (page 27)

You can search for a point on the DVD by selecting the title, chapter, track, index or scene.

-  TIME/TEXT (pages 28, 29)
You can check the playing time and remaining time of the current title, chapter or track and the total playing time or remaining time of the disc.
You can also search by inputting the time code.
You can check the DVD TEXT or CD TEXT of the disc on the TV screen and the front panel display.

-  AUDIO (page 30)
If the DVD is recorded with multilingual tracks, you can select the language you want while playing the DVD.
If the DVD is recorded in multiple audio formats (PCM, Dolby Digital or DTS), you can select the audio format you want while playing the DVD.
With CDs or VIDEO CDs, you can select the sound from the right or left channel and listen to the sound of the selected channel through both the right and left speakers.

-  SUBTITLE (DVD only) (page 32)
With DVDs on which multilingual subtitles are recorded, you can change the subtitle language whenever you want while playing the DVD, and turn it on or off whenever you want.

-  ANGLE (DVD only) (page 32)
With DVDs on which various angles (multi-angles) for a scene are recorded, you can change the angles.

-  VES (DVD only) (page 33)
Select a mode to enjoy multichannel surround sound such as Dolby Digital.
Even if you connect only TV or front speakers, Virtual Enhanced Surround (VES) lets you enjoy 3D sound by using 3D sound imaging to create virtual rear speakers from the sound of the front speakers (L, R) without using actual rear speakers.

-  ADVANCED (DVD only) (page 35)
You can check play information about the bit rate or the position where the disc is being played (layer).

-  CUSTOM PARENTAL CONTROL (page 36)
Using a registered password, you can set playback restrictions for a desired disc.
The same password is used for both Parental Control (page 48) and Custom Parental Control.

-  SETUP (page 43)
Using the setup display, you can do the initial setup, adjust the picture and sound and the various outputs. You can also set a language for the subtitles and the setup display, limit playback by children, and so on. For details about the setup display, see page 45.

-  PROGRAM (page 37)
You can play the contents of the disc in the order you want by arranging the order of the titles, chapters or tracks on the disc to create your own program.

-  SHUFFLE (page 39)
You can have the player "shuffle" titles, chapters or tracks and play them in a random order. Subsequent "shuffling" may produce a different playing order.

-  REPEAT (page 40)
You can play all the titles/tracks on a disc or a single title/chapter/track repeatedly.

-  A-B REPEAT (page 41)
You can play a specific portion of a title, chapter, or track repeatedly.

Searching for a Title/Chapter/Track/Index/Scene

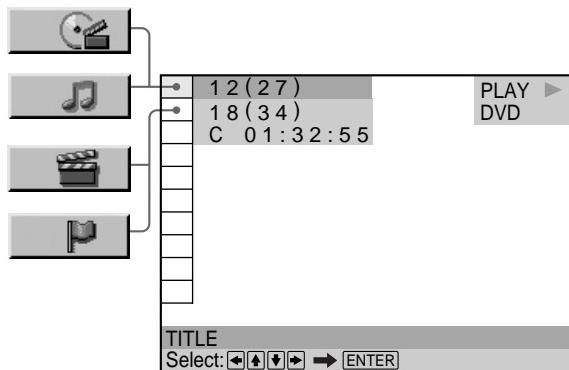


You can search the disc by title, chapter, track, index or scene.

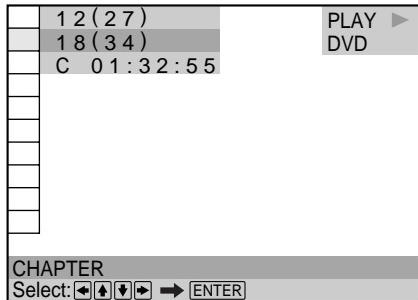
Select "TITLE," "CHAPTER," "TRACK," "INDEX" or "SCENE" after pressing DISPLAY.

When you play back a DVD, "TITLE" and "CHAPTER" are displayed.

When you play back a VIDEO CD/CD, "TRACK" and "INDEX" are displayed. When you play back a VIDEO CD with PBC functions, "SCENE" is displayed.

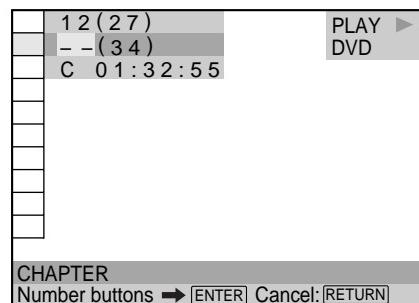


- 1 Select "TITLE," "CHAPTER," "TRACK," "INDEX" or "SCENE" using **↑/↓**.
"** (**)" is highlighted. (** refers to a number)
The number in parentheses indicates the total number of titles, chapters, tracks, indexes or scenes.



2 Press **→** or ENTER.

"** (**)" changes to "-- (**)." The player starts playback at the selected number.



- 3 Select the number of the title, chapter, track, index or scene you want to search for using the number buttons, then press ENTER.

The player starts playback at the selected number.
To cancel the number, press CLEAR before pressing ENTER.

To cancel while making a selection
Press **RETURN**.

Notes

- The title, chapter or track number displayed is the same number recorded on the disc.
- The index numbers are not displayed during PBC playback of VIDEO CDs.

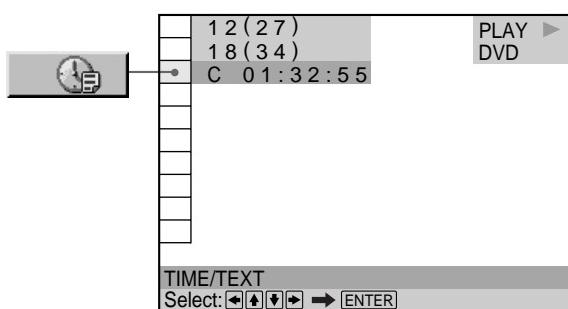
Checking the Playing Time and Remaining Time



You can check the playing time and remaining time of the current title, chapter or track and the total playing time or remaining time of the disc.

Press DISPLAY. Then press TIME/TEXT on the remote to change the time information.

You can also check the DVD TEXT or CD TEXT. See page 29.



When playing a DVD

■ TIME/TEXT

- C * * : * * : * * : Playing time of the current chapter
- C - * * : * * : * * : Remaining time of the current chapter
- T * * : * * : * * : Playing time of the current title
- T - * * : * * : * * : Remaining time of the current title

When playing a VIDEO CD (during PBC playback)

■ TIME/TEXT

- * * : * * : Playing time of the current scene

When playing a VIDEO CD (in continuous play) or CD

■ TIME/TEXT

- T * * : * * : Playing time of the current track
- T - * * : * * : Remaining time of the current track
- D * * : * * : Playing time of the current disc
- D - * * : * * : Remaining time of the current disc

You can select "TIME/TEXT" directly

Press TIME/TEXT on the remote. Each time you press the button, the time information changes.

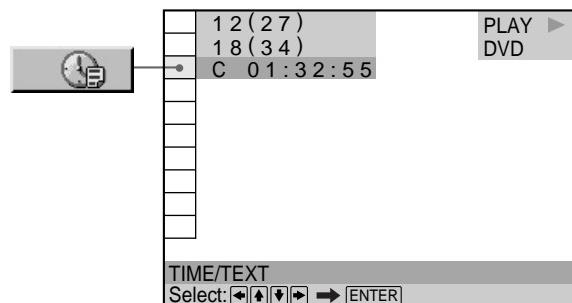
Selecting a Starting Point Using the Time Code



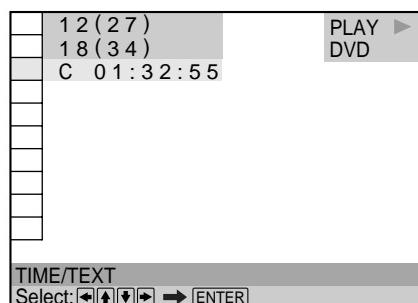
You can search for a starting point by inputting the time code.

Select "TIME/TEXT" after pressing DISPLAY.

The time code corresponds to the approximate actual playing time. For example, to search for a scene 2 hours 10 minutes 20 seconds past the beginning, input 2:10:20.

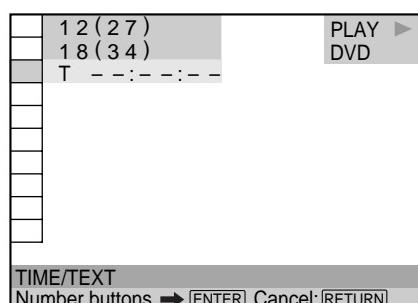


- 1 Select "C * * : * * : * * " (playing time of the current chapter) when playing a DVD.



- 2 Press → or ENTER.

Time code changes to "T - - : - - : - - ."



- 3 Input the time code using the number buttons, then press ENTER.

The player starts playback at the selected time code. To cancel the number, press CLEAR before pressing ENTER.

To cancel while making a selection
Press  RETURN.

Note

When you input the time code, input the playing time of the title, not the chapter or track time.

Viewing the Disc Information

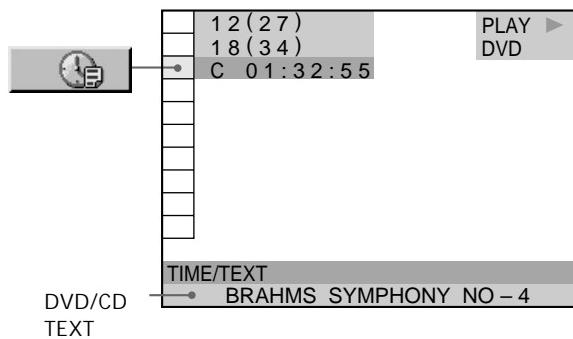


You can check the DVD TEXT or CD TEXT of the disc on the TV screen and the front panel display.

DVD TEXT and CD TEXT are information recorded on the disc which you cannot change.

Press DISPLAY. Then press TIME/TEXT on the remote until DVD/CD TEXT is displayed.

The information is displayed at the bottom of the display.



 You can select "TIME/TEXT" directly

Press TIME/TEXT on the remote. To display DVD/CD TEXT, press TIME/TEXT until DVD/CD TEXT is displayed.

 You can view the entire DVD/CD TEXT recorded on the disc
DVD/CD TEXT is scrolled on the front panel display.

Notes

- DVD TEXT is displayed only in English.
- "NO TEXT" appears when the DVD/CD TEXT is not recorded on the disc.
- This player can only display the first level of DVD/CD TEXT information.

Changing the Sound

DVD

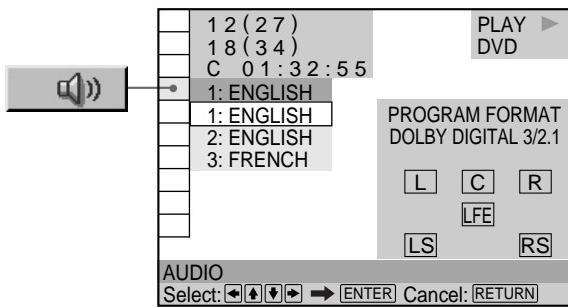
VIDEO
CD

CD

If the DVD is recorded with multilingual tracks, you can select the language you want while playing the DVD. If the DVD is recorded in multiple audio formats (PCM, Dolby Digital or DTS), you can select the audio format you want while playing the DVD.

With multiplex CDs or VIDEO CDs, you can select the sound from the right or left channel and listen to the sound of the selected channel through both the right and left speakers. In this case, the sound loses its stereo effect. For example, with a disc containing a song, the right channel may output the vocals and the left channel may output the instrumental. If you only want to hear the instrumental, you can select the left channel and hear it from both speakers.

Select "AUDIO" after pressing DISPLAY.



■ AUDIO

When playing a DVD

Select the language. The languages you can select are different depending on the DVD. When 4 digits are displayed, they represent the language code. Select the language code from the list on page 62.

When the same language is displayed two or more times, the DVD is recorded in multiple audio formats. The current audio format is shown on the "PROGRAM FORMAT" display.

When playing a VIDEO CD or a CD

The default setting is underlined.

- **STEREO** : The standard stereo sound
- **1/L** : The sound of the left channel (monaural)
- **2/R** : The sound of the right channel (monaural)

You can select "AUDIO" directly

Press AUDIO on the remote. Each time you press the button, the item changes.

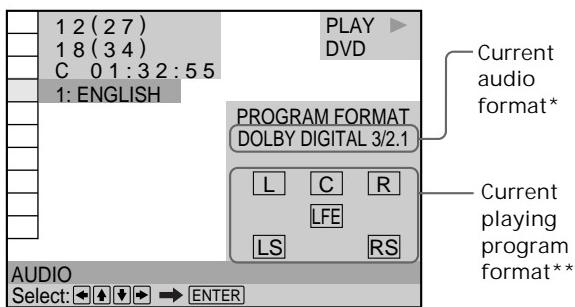
Notes

- Depending on the DVD, you may not be able to change the languages even if multilingual tracks are recorded on the DVD.
- While playing the CD/VIDEO CD, standard stereo playback will be resumed when:
 - you open or close the disc tray
 - the player enters standby mode by pressing **I/O** on the remote
 - you turn the power off by pressing **①** on the player
- While playing the DVD, the sound may be changed when:
 - you open or close the disc tray
 - you change the title
- If "DTS" is set to "OFF" in "AUDIO SETUP," the DTS track selection option will not appear on the screen even if the disc contains DTS tracks.

Displaying the audio information of the disc **DVD**

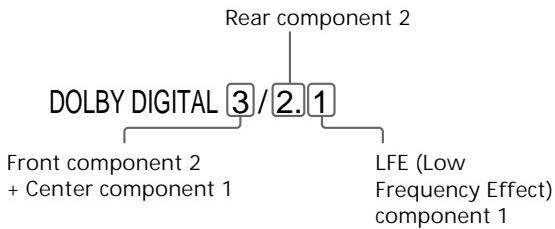
When you select "AUDIO," the channels being played are displayed on the screen.

In Dolby Digital format, multiple signals ranging from monaural to 5.1 channel signals can be recorded on a DVD. Depending on the DVD, the number of the recorded channels may be different.



* "PCM," "DTS" or "DOLBY DIGITAL" is displayed. In case of "DOLBY DIGITAL," the channels in the playing track are displayed by numbers as follows:

For Dolby Digital 5.1 ch:

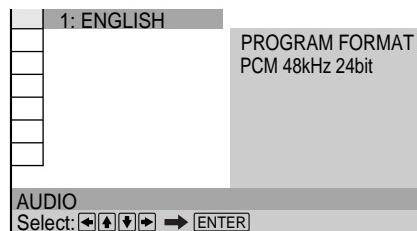


** The letters in the program format display mean the following:

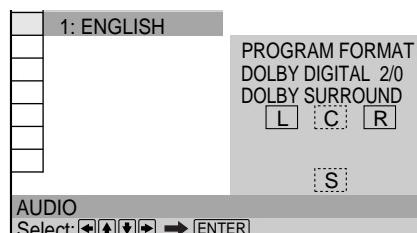
- L: Front (left)
- R: Front (right)
- C: Center (monaural)
- LS: Rear (left)
- RS: Rear (right)
- S: Rear (monaural) - the rear component of the Dolby Surround processed stereo signal and the Dolby Digital signal.
- LFE: - LFE (Low Frequency Effect)

The display examples are as follows:

- PCM (stereo)

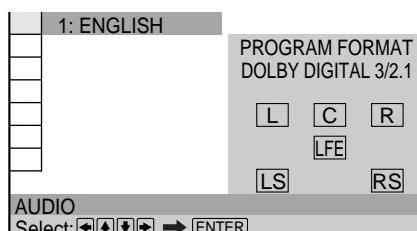


- Dolby Surround



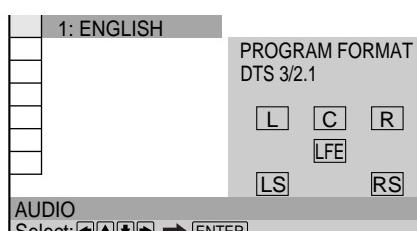
- Dolby Digital 5.1ch

"LFE" appears only when a disc contains an LFE signal component. "LFE" remains on the "PROGRAM FORMAT" display even if the LFE signal component is not being output.



- DTS

"LFE" is always enclosed in a solid line regardless of the LFE signal component being output.



Note

When the signal does not contain rear signal components such as LS, RS or S, the Virtual Enhanced Surround (VES) effect cannot be heard (page 33).

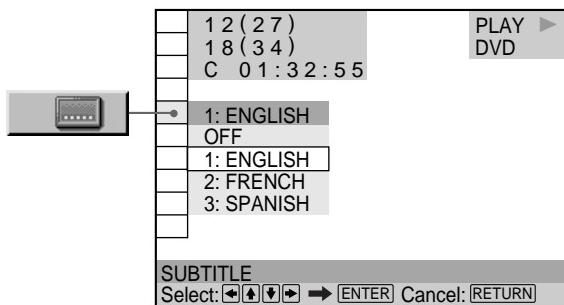
Displaying the Subtitles

DVD

With DVDs on which subtitles are recorded, you can turn the subtitles on and off whenever you want while playing the DVD.

With DVDs on which multilingual subtitles are recorded, you can change the subtitle language whenever you want while playing the DVD, and turn it on or off whenever you want. For example, you can select the language you want to practice and turn the subtitles on for better understanding.

Select "SUBTITLE" after pressing DISPLAY.



■ SUBTITLE

Select the language. The languages you can select are different depending on the DVD. When 4 digits are displayed, they indicate the language code. Select the language code from the list on page 62.

You can select "SUBTITLE" directly

Press SUBTITLE on the remote. Each time you press the button, the item changes.

Notes

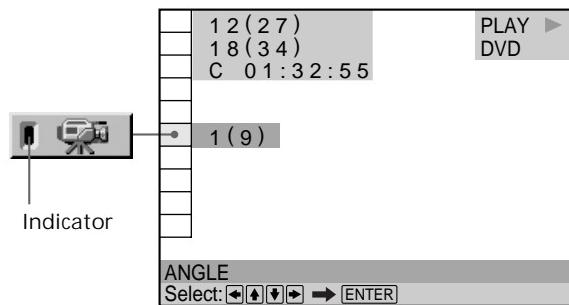
- When playing a DVD on which no subtitles are recorded, no subtitles appear.
- Depending on the DVD, you may not be able to turn the subtitles on even if they are recorded on the DVD.
- Depending on the DVD, you may not be able to turn the subtitles off.
- The type and number of languages for subtitles vary from disc to disc.
- Depending on the DVD, you may not be able to change the subtitles even if multilingual subtitles are recorded on it.
- While playing the DVD, the subtitle may change when:
 - you open or close the disc tray
 - you change the title

Changing the Angles

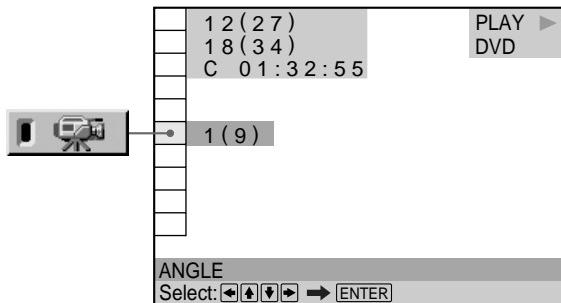
TV DVD

With DVDs on which various angles (multi-angles) for a scene are recorded, you can change the angles. For example, while playing a scene of a train in motion, you can display the view from either the front of the train, the left window of the train or from the right window without having the train's movement interrupted.

Select "ANGLE" after pressing DISPLAY. When the angles can be changed, the "ANGLE" indicator lights up in green.

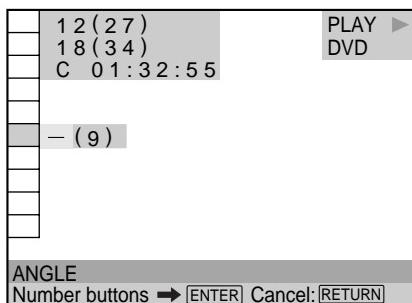


1 Select "ANGLE."



2 Press →.

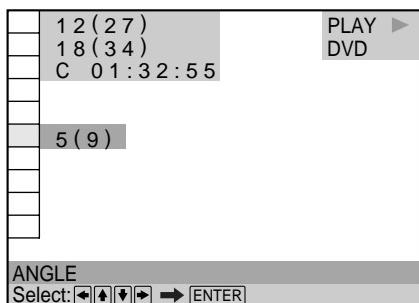
The number of the angle changes to "-.". The number in parentheses indicates the total number of angles.



Digital Cinema Sound Settings **DVD**

- 3 Select the angle number using the number buttons or **↑/↓**, then press **ENTER**.

The angle is changed to the selected angle.



You can select "ANGLE" directly

Press **ANGLE** on the remote. Each time you press the button, the angle changes.

Notes

- The number of angles varies from disc to disc or from scene to scene. The number of angles that can be changed on a scene is equal to the number of angles recorded for that scene.
- Depending on the DVD, you may not be able to change the angles even if multi-angles are recorded on the DVD.

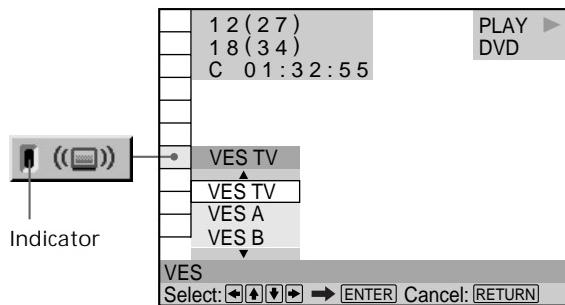
Select a mode to enjoy multichannel surround sound such as Dolby Digital.

Even if you connect only a stereo TV or front speakers, Virtual Enhanced Surround (VES) lets you enjoy 3D sound by using 3D sound imaging to create virtual rear speakers from the sound of the front speakers (L: left, R: right) without using actual rear speakers.

The surround sound signals are output from the **AUDIO OUT** connectors. These signals are not output from the **DIGITAL OUT OPTICAL** or **COAXIAL** connector.

When you select a surround mode, the player does not output the Dolby Digital signals from the **DIGITAL OUT OPTICAL** or **COAXIAL** connector if you set "DOLBY DIGITAL" in "AUDIO SETUP" to "D-PCM."

Select "VES" after pressing **DISPLAY**. When you select any item except "OFF," the "VES" indicator lights up in green.



■ VES

Select the desired item. For details on each item, see "Effects of each item."

The default setting is underlined.

- OFF
- VES TV
- VES A
- VES B
- VIRTUAL SEMI MULTI DIMENSION

Effects of each item

OFF

Outputs 2-channel signals for stereo sound. 5-channel signals for Dolby Digital sound of a DVD are mixed down to 2-channels.

VES (Virtual Enhanced Surround) TV

Uses 3D sound imaging to create virtual rear speakers from the sound of the front speakers (L, R) without using actual rear speakers. This mode is effective when the distance between the front L and R speakers is short, such as built-in speakers on a stereo TV.



VES (Virtual Enhanced Surround) A

Uses 3D sound imaging to create virtual rear speakers from the sound of the front speakers (L, R) without using actual rear speakers. The virtual speakers are reproduced as shown in the illustration below.



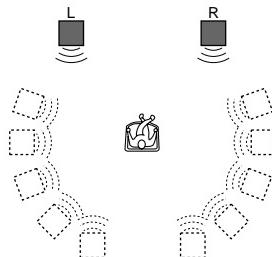
VES (Virtual Enhanced Surround) B

Uses 3D sound imaging to create virtual rear speakers from the sound of the front speakers (L, R) without using actual rear speakers. The virtual speakers are reproduced as shown in the illustration below.



VIRTUAL SEMI MULTI DIMENSION

Uses 3D sound imaging to create virtual rear speakers from the sound of the front speakers (L, R) without using actual rear speakers. This mode creates 5 sets of virtual speakers surrounding the listener at a 30° angle of elevation.



You can select "VES" directly

Press VES on the player. Each time you press the button, the item changes.

Notes

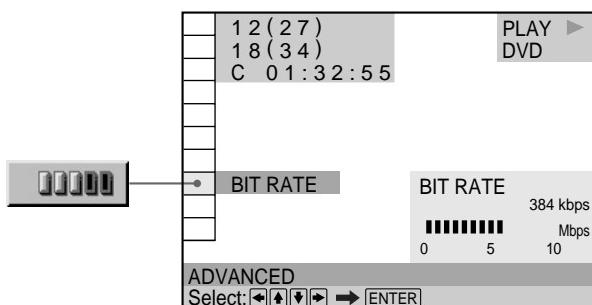
- When you select an item, the sound cuts off for a moment.
- When the playing signal does not contain the surround component, the effects may be difficult to hear even if you select "VES TV," "VES A," "VES B" or "VIRTUAL SEMI MULTI DIMENSION."
- Set the front speakers to form an equilateral triangle with the listening position at the top, or the effects may be difficult to hear even if you select "VES A," "VES B" or "VIRTUAL SEMI MULTI DIMENSION."
- When you select "VES TV," "VES A," "VES B" or "VIRTUAL SEMI MULTI DIMENSION," set the surround settings of the connected units, such as the amplifier, to OFF.

Checking the Play Information

You can check information such as the bit rate or the disc layer that is being played.

While playing a disc, the approximate bit rate of the playback picture is always displayed as Mbps (Mega bit per second) and the audio as kbps (kilo bit per second).

Select “ADVANCED” after pressing DISPLAY.



■ ADVANCED

The default setting is underlined.

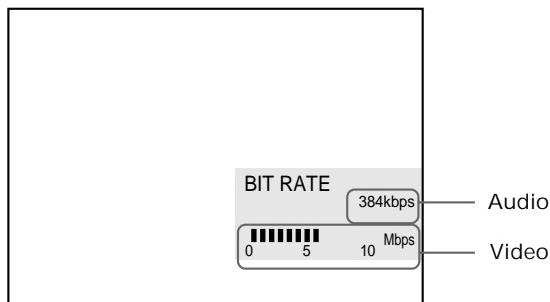
When playing a DVD

- BIT RATE: displays the bit rate.
- LAYER: displays the layer and the pick-up point.
- OFF: turns off ADVANCED display.

Displays of each item

By pressing DISPLAY repeatedly, you can display either “BIT RATE” or “LAYER,” whichever was selected in “ADVANCED.”

BIT RATE



Bit rate refers to the amount of video/audio data per second in a disc. The higher the bit rate, the larger the amount of data. When the bit rate level is high, there is a large amount of data. However, this does not always mean that you can get higher quality pictures or sounds.

LAYER



Appears when the DVD has dual layers

Indicates the approximate point where the disc is playing. If it is a dual-layer DVD, the player indicates which layer is being read (“Layer 0” or “Layer 1”).

For details on the layers, see page 60 (DVD).

Locking Discs (Custom Parental Control)

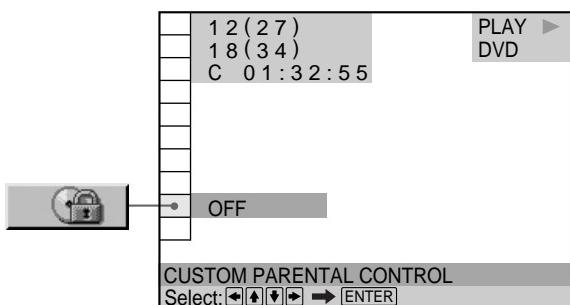


Using a registered password, you can set playback restrictions for the desired disc.

You can set the same Custom Parental Control password for up to 50 discs. When you set the fifty-first disc, the first disc is canceled.

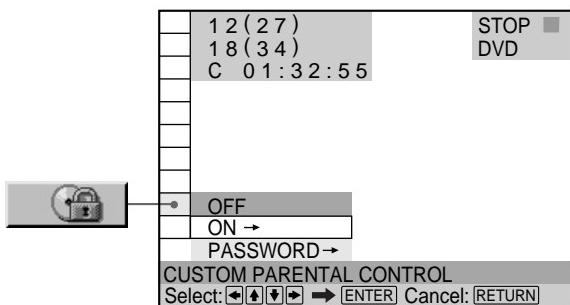
The same password is used for both Parental Control (page 48) and Custom Parental Control.

Select "CUSTOM PARENTAL CONTROL" after pressing DISPLAY.



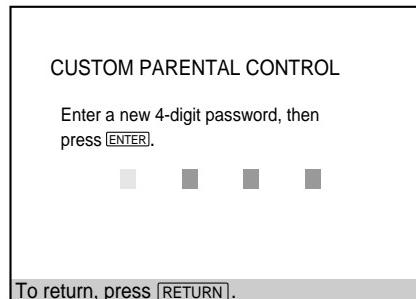
Setting the Custom Parental Control for a disc

- 1 Insert the disc you want to lock.
If a disc is playing, press ■ to stop playback.
- 2 Select "CUSTOM PARENTAL CONTROL" using ↑/↓, then press ENTER.

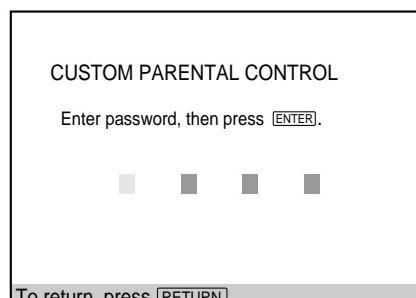


- 3 Select "ON→" using ↑/↓, then press ENTER.

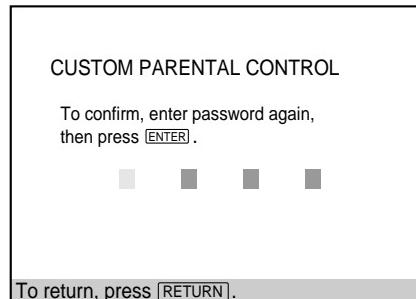
■ If you have not entered a password
The display for entering a password appears.



■ When you have already registered a password
The display for confirming the password appears. Skip Step 4.



- 4 Enter a 4-digit password using the number buttons, then press ENTER.
The digits change to asterisks (*), and the display for confirming the password appears.



- 5 Enter the same 4-digit password using the number buttons, then press ENTER.
"Custom parental control is set." appears and then the screen returns to the Control Menu display.

To return to the normal screen
Press **RETURN**.

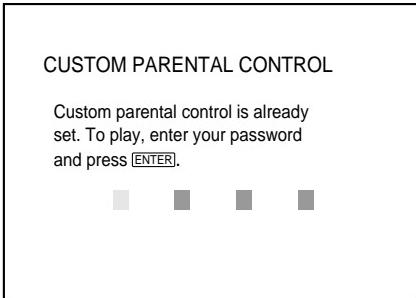
- To turn off the Custom Parental Control function
- 1 Select "CUSTOM PARENTAL CONTROL" using **↑/↓**, then press **ENTER**.
 - 2 Select "OFF→" using **↑/↓**, then press **ENTER**.
 - 3 Enter your 4-digit password using the number buttons, then press **ENTER**.

To change the password

- 1 Select "CUSTOM PARENTAL CONTROL" using **↑/↓**, then press **ENTER**.
 - 2 Select "PASSWORD→" using **↑/↓**, then press **ENTER**.
 - 3 Enter your 4-digit password using the number buttons, then press **ENTER**.
- The display for changing the password appears.
- 4 Enter a new 4-digit password using the number buttons, then press **ENTER**.
 - 5 To confirm your password, re-enter it using the number buttons, then press **ENTER**.

Playing the disc for which the Custom Parental Control is set

- 1 Insert the disc.
The CUSTOM PARENTAL CONTROL display appears.



- 2 Enter your 4-digit password using the number buttons, then press **ENTER**.
The player starts playback.

If you forget your password

Enter the 6-digit number "199703" whenever the CUSTOM PARENTAL CONTROL display asks you for your password, then press **ENTER**. The display will ask you to enter a new 4-digit password.

Note

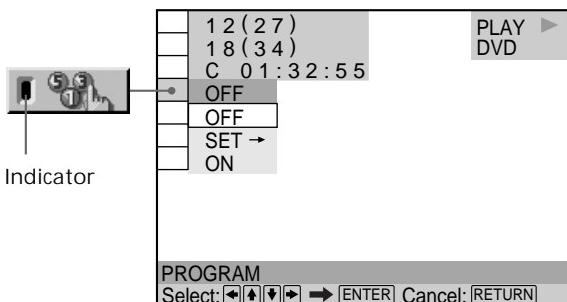
Unless you enter the password, the player cannot play the disc for which the Custom Parental Control is set. When you do not know the password, press **△** and remove the disc.

Creating Your Own Program (Program Play)

DVD VIDEO CD CD

You can play the contents of the disc in the order you want by arranging the order of the titles, chapters or tracks on the disc and create your own program. One program can be stored in the player and contain up to 99 titles, chapters and tracks.

Select "PROGRAM" after pressing DISPLAY. When you select "ON," the "PROGRAM" indicator lights up in green.



■ PROGRAM

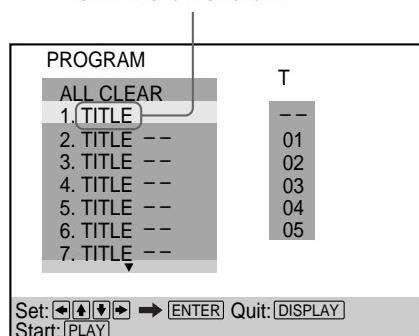
The default setting is underlined.

- OFF: plays normally.
- SET→: allows you to create your own program.
- ON: plays Program Play.

Creating the program

- 1 Select "SET→" in "PROGRAM."
The programming display appears.

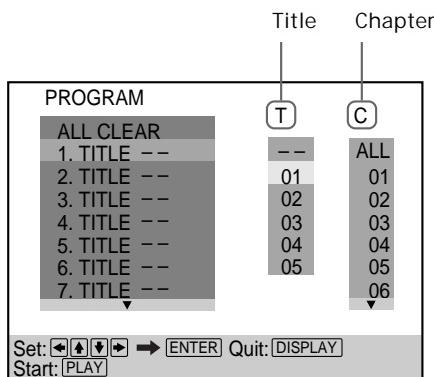
"TRACK" is displayed when you play a VIDEO CD or a CD.



Creating Your Own Program (Program Play)

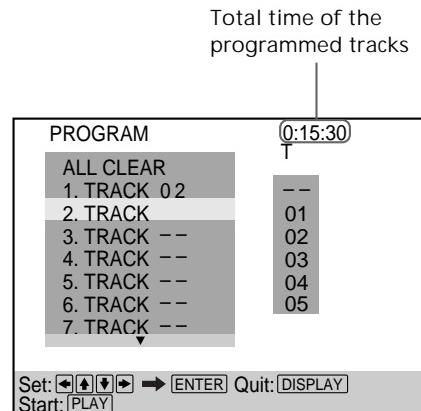
2 Press **→**.

"01" is highlighted. It is ready to set the first title or track for Program Play.



■ When playing a VIDEO CD or CD

Select the track you want to program.



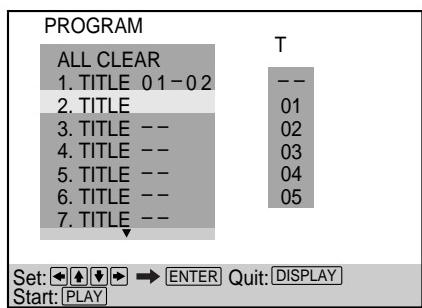
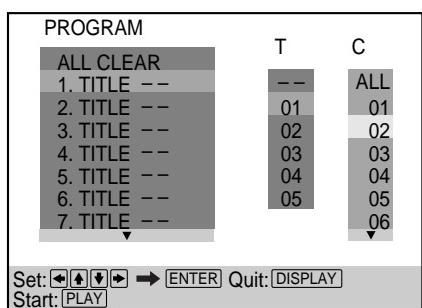
3 Select the title, chapter or track you want to program using **↑/↓**, then press ENTER.

For example, select title or track 2.

(You can also use the number buttons and ENTER button to make a selection. In this case, the selected number is displayed on the screen.)

■ When playing a DVD

When both titles and chapters are recorded on the disc, select the title, then the chapter.



4 To program other titles, chapters or tracks, repeat Step 3.

The programmed titles, chapters or tracks are displayed in the selected order.

5 Press **▷** to start Program Play.

To stop Program Play
Press CLEAR on the remote.

To cancel programming
Press PROGRAM on the remote.

To change the program

1 In Step 2, select the program number of the title, chapter or track you want to change using **↑/↓**.

2 Follow Step 3 for new programming.

To cancel the programmed order

To cancel all the titles, chapters or tracks in the programmed order, select "ALL CLEAR" in Step 2.

To cancel the selected program, select the program using **↑/↓** in Step 2 then press CLEAR, or select "--" in Step 3 then press ENTER.

 The program remains even after Program Play ends.
When you press ▶, you can play the same program again.

 You can do Repeat Play or Shuffle Play of the programmed titles, chapters or tracks

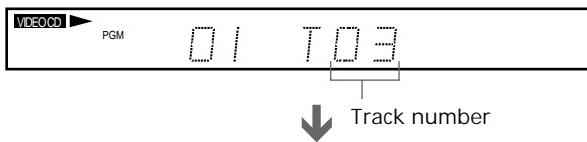
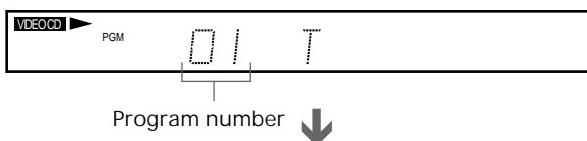
During Program Play, press REPEAT or SHUFFLE on the remote. Or set "REPEAT" or "SHUFFLE" to "ON" in the Control Menu display.

 You can select "PROGRAM" directly
Press PROGRAM on the remote.

 You can select discs, titles, chapters and tracks for the program by looking at the front panel display

You can program by looking at the front panel display instead of using the programming display on the TV screen.

When you select Track 3 in a VIDEO CD for Program 1, the front panel display will appear as follows:



Notes

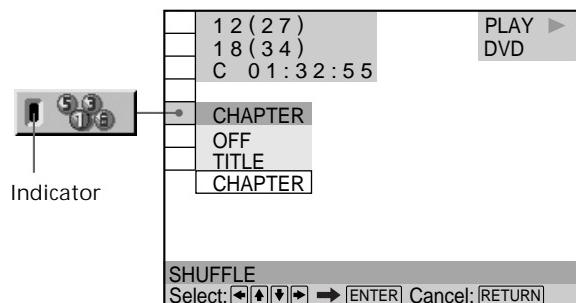
- The number of titles, chapters or tracks displayed are the same number of titles, chapters or tracks recorded on a disc.
- The program is canceled when:
 - you open or close the disc tray
 - the player enters standby mode by pressing **I/O** on the remote
 - you turn the power off by pressing **①** on the player
- Depending on the DVD, you may not be able to perform Program Play.
- If you are using the PBC playback function, you must first stop the disc before you can set a program.

Playing in Random Order (Shuffle Play)

DVD **VIDEO CD** **CD**

You can have the player "shuffle" titles, chapters or tracks and play them in a random order. Subsequent "shuffling" may produce a different playing order.

Select "SHUFFLE" after pressing DISPLAY. When you select a shuffle mode other than "OFF," the "SHUFFLE" indicator lights up in green.



■ SHUFFLE

Selects the Shuffle Play setting.
The default settings are underlined.

When playing a DVD and when Program Play is set to OFF

- OFF: does not play a disc in random order.
- TITLE: has the player "shuffle" titles and play them in a random order.
- CHAPTER: has the player "shuffle" chapters and play them in a random order.

When playing a VIDEO CD or CD (when Program Play is set to OFF)

- OFF: does not play a disc in random order.
- TRACK: has the player "shuffle" tracks and play them in a random order.

When playing a VIDEO CD, CD or DVD (when Program Play is set to ON)

- OFF: does not play a disc in random order.
- ON: has the player "shuffle" titles or tracks selected in Program Play and play them in a random order.

To stop Shuffle Play
Press CLEAR on the remote.

Playing in Random Order (Shuffle Play)

 You can set Shuffle Play while the disc is stopped
After selecting the "SHUFFLE" option, press ▶.
The player starts Shuffle Play.

 You can select "SHUFFLE" directly
Press SHUFFLE on the remote. Each time you press the button, the item changes.

Notes

- Shuffle Play is canceled when:
 - you open or close the disc tray
 - the player enters standby mode by pressing **I/O** on the remote
 - you turn the power off by pressing **①** on the player
- Depending on the DVD, you may not be able to perform Shuffle Play.
- Up to 200 chapters in a disc can be played in random order when "CHAPTER" is selected.

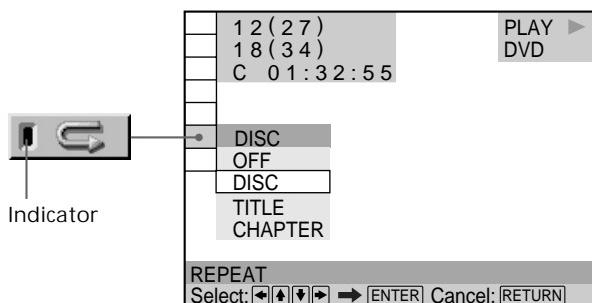
Playing Repeatedly (Repeat Play)

You can play all of the titles or tracks on a disc or a single title, chapter or track repeatedly.

In Shuffle or Program Play mode, the player repeats the titles or tracks in the shuffled or programmed order.

You cannot perform Repeat Play during PBC playback of VIDEO CDs (page 21).

Select "REPEAT" after pressing DISPLAY. When you select a repeat mode other than "OFF," the "REPEAT" indicator lights up in green.



■ REPEAT

Selects the Repeat Play setting.
The default settings are underlined.

When playing a DVD and when Program Play and Shuffle Play are set to OFF

- OFF: does not play repeatedly.
- DISC: repeats all of the titles.
- TITLE: repeats the current title on a disc.
- CHAPTER: repeats the current chapter.

When playing a VIDEO CD/CD and when Program Play and Shuffle Play are set to OFF

- OFF: does not play repeatedly.
- DISC: repeats all of the tracks on a disc.
- TRACK: repeats the current track.

When Program Play or Shuffle Play is set to ON

- OFF: does not play repeatedly.
- ON: repeats Program Play or Shuffle Play.

To stop Repeat Play

Press CLEAR on the remote.

Repeating a Specific Portion (A-B Repeat)

DVD

VIDEO CD

CD

 You can set Repeat Play while the disc is stopped.
After selecting the "REPEAT" option, press ▶.
The player starts Repeat Play.

 You can select "REPEAT" directly
Press REPEAT on the remote. Each time you press the button, the item changes.

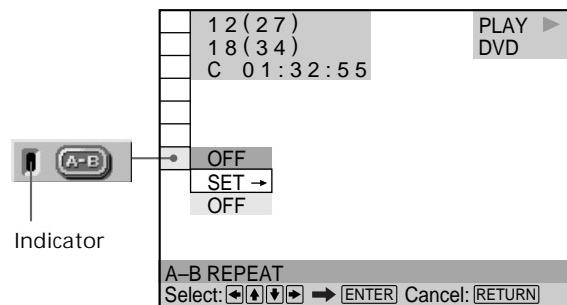
Notes

- Repeat play is canceled when:
 - you open or close the disc tray
 - the player enters standby mode by pressing **I/O** on the remote
 - you turn the power off by pressing **①** on the player
- Depending on the DVD, you may not be able to perform Repeat Play.

You can play a specific portion of a title, chapter or track repeatedly. This function is useful when you want to do such things as memorize lyrics.

During PBC Playback of VIDEO CDs (page 21), this function is available only while playing moving pictures.

Select "A-B REPEAT" after pressing DISPLAY. During A-B Repeat Play, the "A-B REPEAT" indicator lights up in green.



■ A-B REPEAT

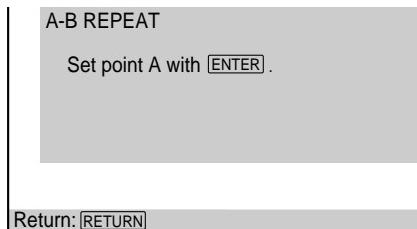
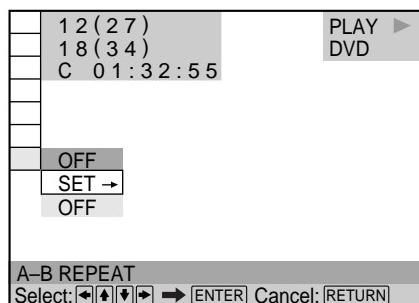
The default setting is underlined.

- SET →: sets the A and B points.
- OFF: does not play a specific portion of a title/chapter/track repeatedly.

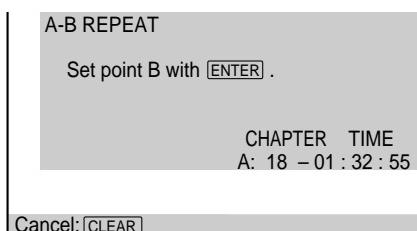
Repeating a Specific Portion (A-B Repeat)

Setting a portion for A-B repeat

- 1 Select "SET→" in "A-B REPEAT."
The A-B REPEAT setting display appears.



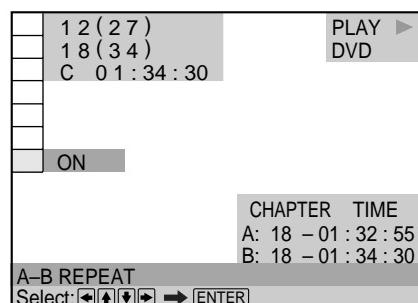
- 2 During playback, when you find the starting point (point A) of the portion to be played repeatedly, press ENTER.
The starting point (point A) is set.



- 3 When you reach the ending point (point B), press ENTER again.

The set points are displayed and the player starts repeating this specific portion.

"A-B" appears on the front panel display during A-B repeat play.



To stop A-B Repeat Play
Press CLEAR on the remote.

You can select "A-B REPEAT" directly
Press A-B on the remote.

Notes

- You can set A-B Repeat for only one specific portion.
- A-B Repeat is canceled when:
 - you open or close the disc tray
 - the player enters standby mode by pressing I/O on the remote
 - you turn the power off by pressing ① on the player
- When you set A-B Repeat, the settings for Shuffle Play and Program Play are canceled.
- You may not be able to set A-B Repeat for some DVD or VIDEO CD scenes.

Settings and Adjustments

This chapter describes how to set and adjust the player using the on-screen setup menu. Most settings and adjustments are required to be set when you first use the player. This chapter also describes how to set the remote for controlling the TV or the AV receiver (amplifier).

Using the Setup Display

DVD

VIDEO
CD

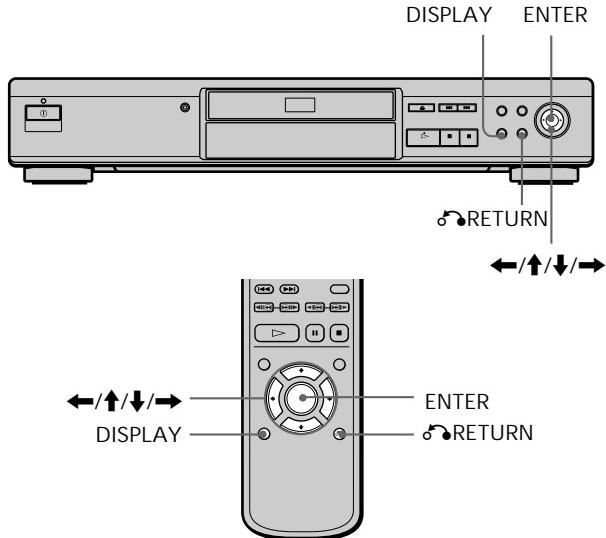
CD

Using the setup display, you can do the initial setup, adjust the picture and sound and set the various outputs. You can also set a language for the subtitles and the setup display, limit playback by children, and so on.

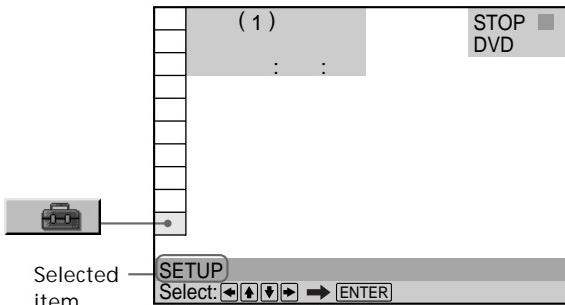
For details on each setup display item, see pages 46 to 53.

Note

You can display the setup display only when the player is in stop mode.

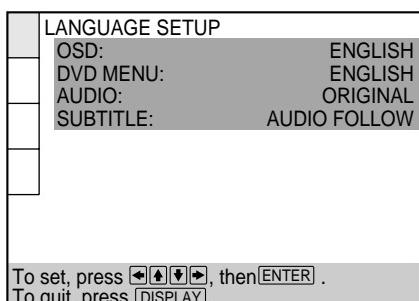


1 Press DISPLAY and select "SETUP" using \uparrow/\downarrow .



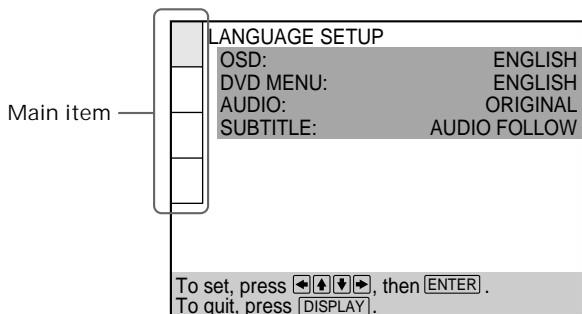
2 Press ENTER.

The setup display appears.



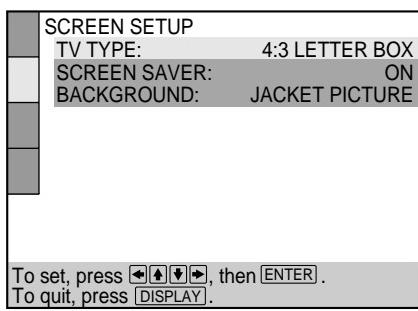
Using the Setup Display

3 Select the main item you want using **↑/↓**.

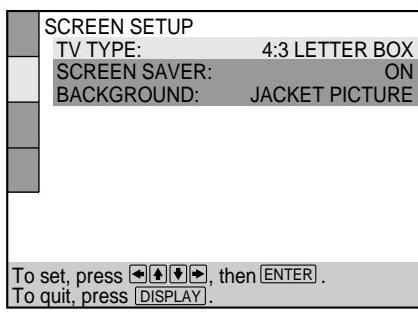


4 Press ENTER.

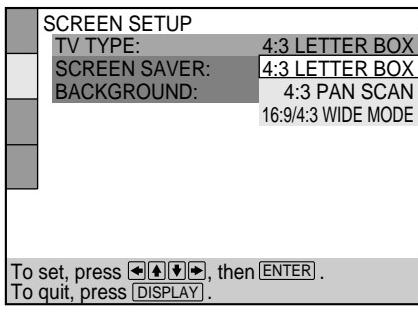
The selected main item is highlighted.



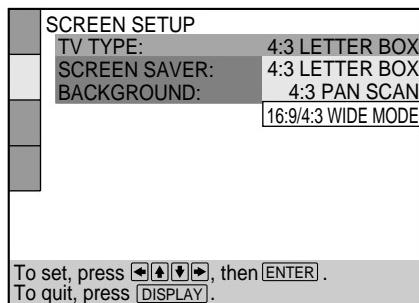
5 Select the item you want using **↑/↓**.



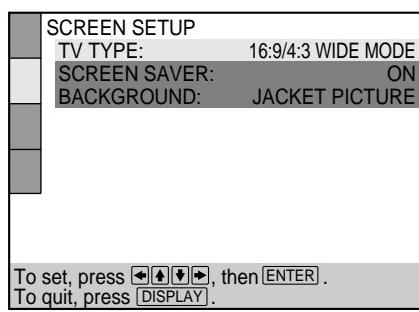
6 Press ENTER.



7 Select the setting you want using **←/↑/↓/→**.



8 Press ENTER.



9 Press DISPLAY.

The setup display disappears.

10 Press DISPLAY repeatedly to turn off the on-screen menu.

To return to the previous screen
Press **RETURN**.

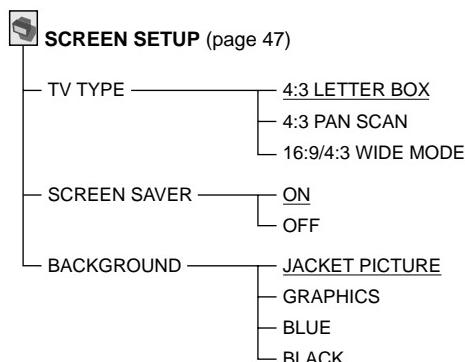
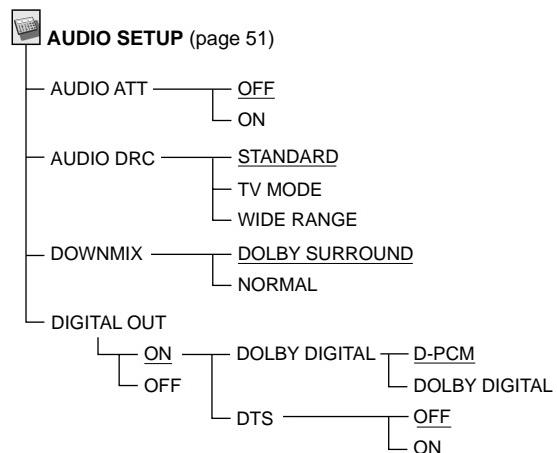
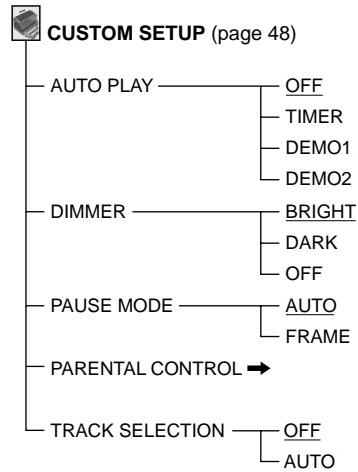
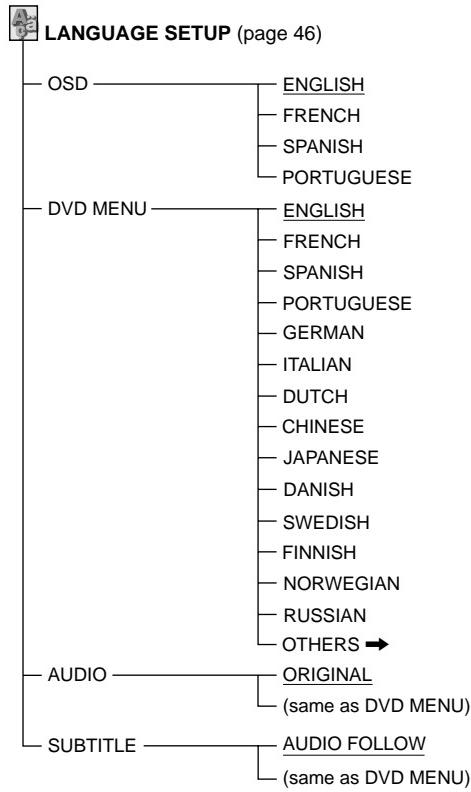
To quit while making a selection
Press **DISPLAY**.

Note

Some setup display items require operations other than selecting the setting. For details on these items, see the relevant pages.

Setup Display Item List

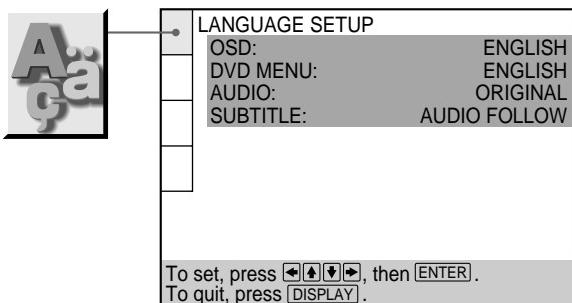
The default settings are underlined.



Setting the Display Language or Sound Track (LANGUAGE SETUP)

“LANGUAGE SETUP” allows you to set various languages for the on-screen display or sound track. The default settings are underlined.

Select “LANGUAGE SETUP” in the setup display.



Notes

- When you select a language that is not recorded on the DVD, one of the recorded languages is automatically selected for the “DVD MENU,” “AUDIO” and “SUBTITLE” settings.
- Depending on the DVD, the player may not start playing with the selected language even when you select a language in “DVD MENU,” “AUDIO” or “SUBTITLE.”

■ OSD (On-Screen Display)

Selects the language for the on-screen display.

- ENGLISH
- FRENCH
- SPANISH
- PORTUGUESE

■ DVD MENU

Selects the language for the DVD menu.

- ENGLISH
- FRENCH
- SPANISH
- PORTUGUESE
- GERMAN
- ITALIAN
- DUTCH
- CHINESE
- JAPANESE
- DANISH
- SWEDISH
- FINNISH
- NORWEGIAN
- RUSSIAN
- OTHERS→

When you select “OTHERS→,” select and enter the language code from the list using the number buttons (page 62).

After you have made a selection, the language code (4 digits) is displayed.

■ AUDIO

Selects the language for the sound track.

- ORIGINAL: the language given priority in the disc
- ENGLISH
- FRENCH
- SPANISH
- PORTUGUESE
- GERMAN
- ITALIAN
- DUTCH
- CHINESE
- JAPANESE
- DANISH
- SWEDISH
- FINNISH
- NORWEGIAN
- RUSSIAN
- OTHERS→

When you select “OTHERS→,” select and enter the language code from the list using the number buttons (page 62). After you have made a selection, the language code (4 digits) is displayed.

■ SUBTITLE

Selects the language for the subtitles.

- AUDIO FOLLOW*
- ENGLISH
- FRENCH
- SPANISH
- PORTUGUESE
- GERMAN
- ITALIAN
- DUTCH
- CHINESE
- JAPANESE
- DANISH
- SWEDISH
- FINNISH
- NORWEGIAN
- RUSSIAN
- OTHERS→

When you select “OTHERS→,” select and enter the language code from the list using the number buttons (page 62).

After you have made a selection, the language code (4 digits) is displayed.

* When you select “AUDIO FOLLOW,” the language for the subtitles changes according to the language for the setting you selected in “AUDIO.”

Settings for the Display (SCREEN SETUP)

DVD

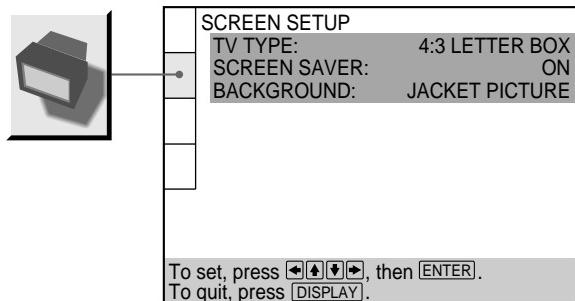
VIDEO
CD

CD

"SCREEN SETUP" allows you to set the display according to the playback conditions.

The default settings are underlined.

Select "SCREEN SETUP" in the setup display.

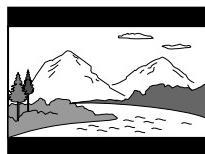


■TV TYPE

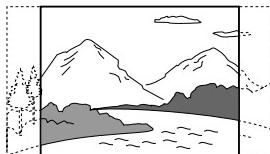
Selects the aspect ratio of the TV to be connected.

- 4:3 LETTER BOX: select this when you connect a normal TV to the player. Displays a wide picture with bands on the upper and lower portions of the screen.
- 4:3 PAN SCAN: select this when you connect a normal TV to the player. Displays the wide picture on the whole screen automatically and cuts off the portions that do not fit.
- 16:9/4:3 WIDE MODE: select this when you connect a wide-screen TV to the player or when you connect a TV with WIDE MODE function to the player (displays a wide picture with bands displayed on the upper and lower portions of the screen).

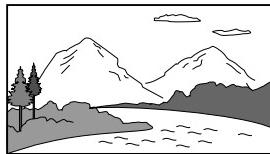
4:3 LETTER BOX



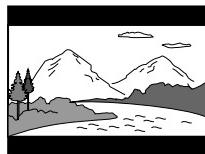
4:3 PAN SCAN



16:9



4:3 WIDE MODE



■ SCREEN SAVER

Turns on and off the screen saver. If you turn on the screen saver, the screen saver image appears when you leave the player or the remote in pause or stop mode for 15 minutes, or when you play back a CD for more than 15 minutes. The screen saver will help prevent your display device from becoming damaged.

- ON: turns on the screen saver.
- OFF: turns off the screen saver.

■ BACKGROUND

Selects the background color on picture on the TV screen in stop mode or while playing a CD.

- JACKET PICTURE: The jacket picture appears in the background, but only when the jacket picture is already recorded on the disc.
- GRAPHICS: A preset picture stored in the player appears in the background.
- BLUE: The background color is blue.
- BLACK: The background color is black.

Note

If a disc which does not contain the jacket picture is played while "BACKGROUND" is set to "JACKET PICTURE," the picture stored in the player will automatically appear in the background.

Note

Depending on the DVD, "4:3 LETTER BOX" may be selected automatically instead of "4:3 PAN SCAN" and vice versa.

Custom Settings (CUSTOM SETUP)

DVD

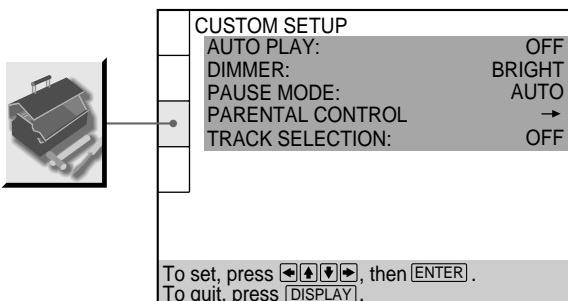
VIDEO
CD

CD

“CUSTOM SETUP” allows you to set the playback conditions.

The default settings are underlined.

Select “CUSTOM SETUP” in the setup display.



■ AUTO PLAY

Selects the Auto Play setting when you connect the AC power cord to the AC outlet.

- OFF: does not use “TIMER,” “DEMO1” or “DEMO2” to start playback.
- TIMER: starts playing when the player is turned on, or at any time you want when connected to a timer (not supplied). Set the timer when the player is in standby mode (the power indicator lights up in red).
- DEMO1: starts playing the first demonstration automatically.
- DEMO2: starts playing the second demonstration automatically.

■ DIMMER

Adjusts the lighting of the front panel display.

- BRIGHT: makes the front panel display bright.
- DARK: makes the front panel display dark.
- OFF: turns off the lighting of the front panel display.

■ PAUSE MODE (DVD only)

Selects the picture in pause mode.

- AUTO: A picture, including subjects that move dynamically, is output with no jitter. Normally select this position.
- FRAME: A picture including subjects that do not move dynamically is output with high resolution.

■ PARENTAL CONTROL ➔

Sets a password and playback limitation level for DVDs with playback limitation for children.

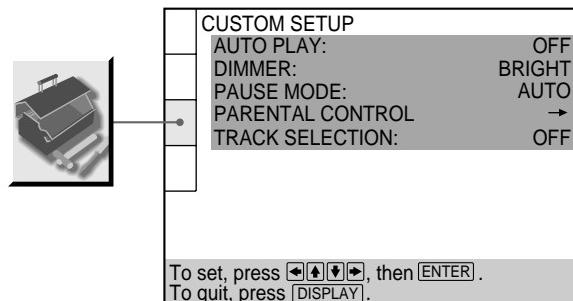
The same password is used for both Parental Control and Custom Parental Control (page 36) .

For details, see “Limiting Playback by Children (Parental Control).”

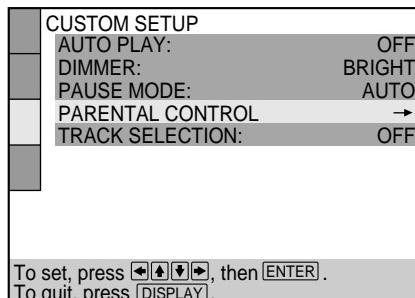
LIMITING PLAYBACK BY CHILDREN (PARENTAL CONTROL) DVD

Playback of some DVDs can be limited depending on the age of the users. The “Parental Control” function allows you to set a playback limitation level.

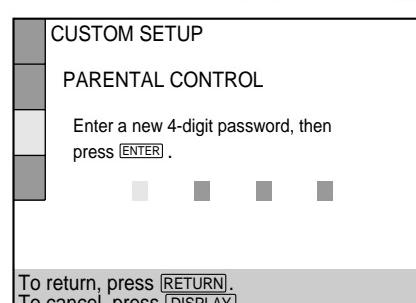
Select “CUSTOM SETUP” in the setup display.



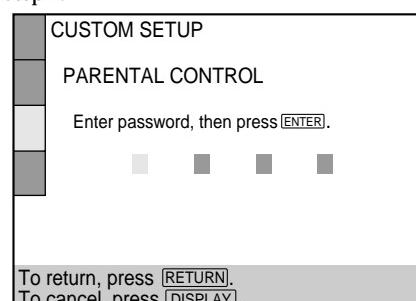
- 1 Select “PARENTAL CONTROL” using **↑/↓**, then press **ENTER**.



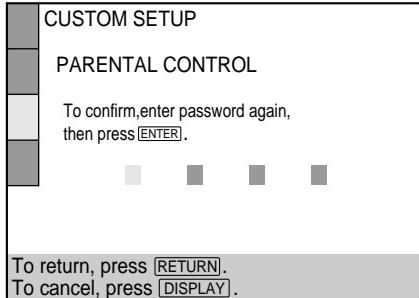
- When you have not entered a password
The display for entering a password appears.



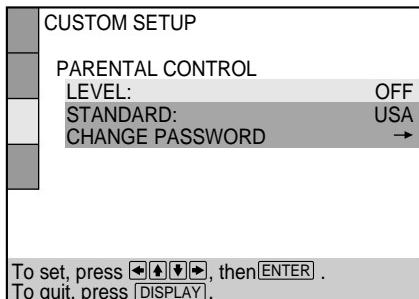
- When you have already registered a password
The display for confirming the password appears. Skip Step 2.



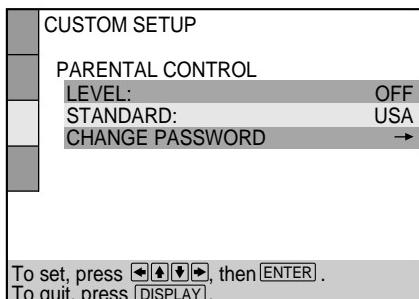
- 2 Enter a password in 4 digits using the number buttons, then press ENTER.
The digits change to asterisks (*), and the display for confirming the password appears.



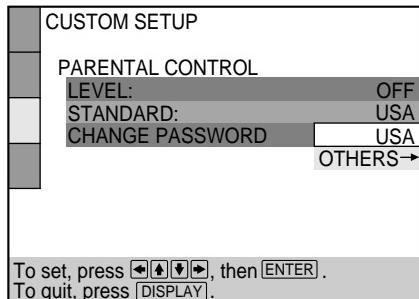
- 3 To confirm your password, enter it again using the number buttons, then press ENTER.
The display for setting the playback limitation level and changing the password appears.



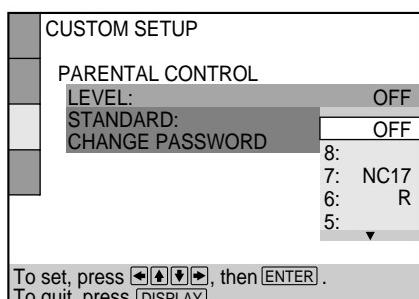
- 4 Select "STANDARD" using ↑/↓, then press →.



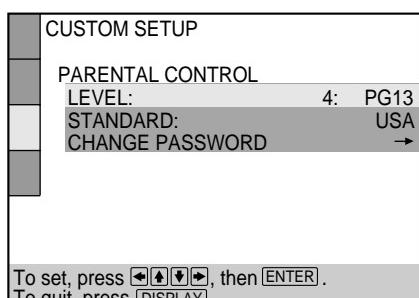
- 5 Select a geographic area as the playback limitation level standard using ↑/↓, then press →.
When you select "OTHERS→," select and enter the standard code in the table on the next page using the number buttons.



- 6 Select "LEVEL" using ↑/↓, then press →.



- 7 Select the level you want using ↑/↓, then press ENTER.



The lower the value, the more strict the limitation.

To return to the normal screen
Press DISPLAY.

To turn off the Parental Control function and play the DVD after entering your password
Set "LEVEL" to "OFF" in Step 7, then press ▷.

To change the password

- 1 After Step 3, select “CHANGE PASSWORD” using **↑/↓**, then press **►** or **ENTER**.

The display for changing the password appears.

- 2 Follow Steps 2 and 3 to enter a new password.

Playing a disc which is blocked by the playback limitation level

- 1 Insert the disc and press **▷**.

The PARENTAL CONTROL display appears.

- 2 Enter your 4-digit password using the number buttons, then press **ENTER**.

The player starts playback.

When you stop playing the DVD, the level returns to the original level.

If you forget your password

Enter the 6-digit number “199703” whenever the PARENTAL CONTROL display asks you for your password, then press **ENTER**. The display will ask you to enter a new 4-digit password.

Notes

- When you play DVDs which do not have the Parental Control function, playback cannot be limited on this player.
- If you do not set a password, you cannot change the settings for playback limitation.
- Depending on the DVD, you may be asked to change the parental control level while playing the disc. In this case, enter your password, then change the level.
When you stop playing the DVD, the level returns to the original level.
- The same password is used for both Parental Control and Custom Parental Control (page 36).

Standard	Code number
Argentina	2044
Australia	2047
Austria	2046
Belgium	2057
Brazil	2070
Canada	2079
Chile	2090
China	2092
Denmark	2115
Finland	2165
France	2174
Germany	2109
Hong Kong	2219
India	2248
Indonesia	2238
Italy	2254
Japan	2276
Korea	2304
Malaysia	2363
Mexico	2362
Netherlands	2376
New Zealand	2390
Norway	2379
Pakistan	2427
Philippines	2424
Portugal	2436
Russia	2489
Singapore	2501
Spain	2149
Sweden	2499
Switzerland	2086
Taiwan	2543
Thailand	2528
United Kingdom	2184

■ TRACK SELECTION

Gives the sound track which contains the highest number of channels priority when you play a DVD on which multiple audio formats (PCM, DTS or Dolby Digital format) are recorded.

- OFF : No priority given.
- AUTO : Priority given.

Notes

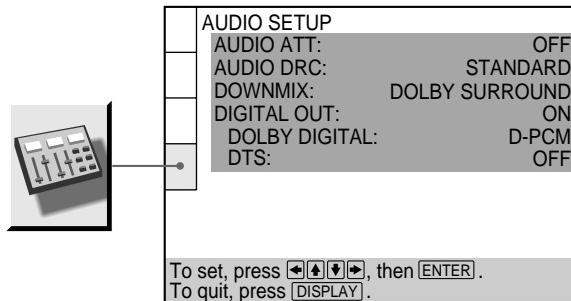
- When you set this item to "AUTO," the language may change depending on the "AUDIO" settings in "LANGUAGE SETUP." The "TRACK SELECTION" setting has higher priority than the "AUDIO" settings in "LANGUAGE SETUP" (page 46).
- If you set "DTS" in "AUDIO SETUP" to "OFF," the DTS sound track is not played even if you set this item to "AUTO" and the highest-numbered audio channel is recorded in DTS format.
- If PCM, DTS and Dolby Digital sound tracks have the same number of channels, the player selects PCM, DTS and Dolby Digital sound tracks in this order.
- Depending on the DVD, the audio channel with priority may be predetermined. In this case, you cannot give priority to the DTS or Dolby Digital format by selecting "AUTO."

Settings for the Sound (AUDIO SETUP)

"AUDIO SETUP" allows you to set the sound according to the playback conditions.

The default settings are underlined.

Select "AUDIO SETUP" in the setup display.



■ AUDIO ATT (attenuation)

If the playback sound is distorted, set this item to "ON." The player reduces the audio output level.

Selects the setting of the output from the AUDIO OUT connectors according to the audio equipment to be connected.

- OFF: turns off the audio attenuation. Normally select this position.
- ON: reduces the audio output level so that no sound distortion occurs. Select this when the playback sound from the built-in TV speakers is distorted.

Note

The setting does not affect the output from the DIGITAL OUT OPTICAL and COAXIAL connectors.

■ AUDIO DRC (Dynamic Range Control)

Makes the sound clear when the volume is turned down when playing a DVD. This function works only when you play a DVD which has the AUDIO DRC function. This affects the output from the DIGITAL OUT connectors only when "DOLBY DIGITAL" is set to "D-PCM" in "DIGITAL OUT," and it affects the output from the AUDIO OUT connectors.

- STANDARD: Normally select this position.
- TV MODE: makes the low sounds clear even if you turn the volume down. It is especially recommended when you listen to the sound using the speakers of the TV.
- WIDE RANGE: It gives you the feeling of being at a live performance. When you use high quality speakers, it is more effective.

Note

When you play DVDs without the AUDIO DRC function, there may be no effect on the sound.

Settings for the Sound (AUDIO SETUP)

■ DOWNMIX

Switches the mixing down methods when you play a DVD on which rear signal components such as LS, RS or S are recorded in Dolby Digital format. For details on the rear signal components, see “Displaying the audio information of the disc” (page 31).

The “DOWNMIX” setting affects the following connectors:

- AUDIO OUT connectors
- DIGITAL OUT OPTICAL and COAXIAL connectors (when you set “DOLBY DIGITAL” to “D-PCM” in “AUDIO SETUP” in the setup display)
- **DOLBY SURROUND:** when the player is connected to an audio component that conforms to Dolby Surround (Pro Logic). The output signals which reproduce the Dolby Surround (Pro Logic) effect are mixed down to 2 channels.
- **NORMAL:** when the player is connected to an audio component that does not conform to Dolby Surround (Pro Logic). The signals without the Dolby Surround (Pro Logic) effect are output.

■ DIGITAL OUT

Selects output signals via the DIGITAL OUT OPTICAL and COAXIAL connectors.

- **ON:** Normally select this position. When you select “ON,” set “DOLBY DIGITAL” and “DTS.” For details on setting these items, see “Setting the Digital Output Signal.”
- **OFF:** when the player does not output the sound signals via the DIGITAL OUT OPTICAL and COAXIAL connectors, the influence of the digital circuit upon the analog circuit is at a minimum.

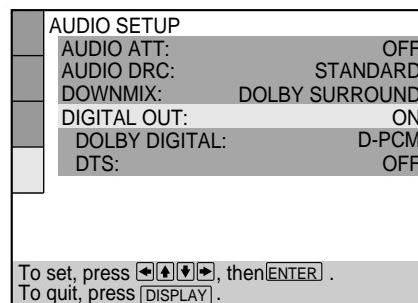
Notes

- When you play sound tracks with a 96 kHz sampling frequency, the output signals from the DIGITAL OUT (OPTICAL, COAXIAL) are converted to 48 kHz (sampling frequency). When the signals are output from the AUDIO OUT connectors, sampling frequency stays at 96 kHz and the output signals are converted to analog signals.
- When you select “OFF,” you cannot set “DOLBY DIGITAL,” and “DTS.”

Setting the Digital Output Signal

Switches the methods of outputting audio signals when you, connect 1. a digital component such as a receiver (amplifier) having a digital connector, 2. an audio component having a built-in decoder (Dolby Digital or DTS), 3. a DAT or MD via the DIGITAL OUT OPTICAL or COAXIAL connector using an optical or coaxial digital connecting cord. For connection details, see pages 10 and 12.

When you select “ON,” set “DOLBY DIGITAL” and “DTS.”



■ DOLBY DIGITAL

Selects the Dolby Digital signals to be output via the DIGITAL OUT OPTICAL and COAXIAL connectors. You cannot select this item when you set “DIGITAL OUT” to “OFF.”

- **D-PCM** (Downmix PCM): when the player is connected to an audio component lacking a built-in Dolby Digital decoder. If you play Dolby Digital sound tracks, the output audio signals are mixed down to 2 channels. You can select whether the signals conform to Dolby Surround (Pro Logic) or not by making adjustments to the “DOWNMIX” item in “AUDIO SETUP.”
- **DOLBY DIGITAL:** when the player is connected to an audio component with a built-in Dolby Digital decoder. If the player is connected to an audio component lacking a built-in Dolby Digital decoder, do not set this. Otherwise, when you play the Dolby Digital sound track, a loud noise or no sound will come out from the speakers, affecting your ears or causing the speakers to be damaged.

Note

When you select “D-PCM,” set Virtual Enhanced Surround (VES) to “OFF.” Otherwise, the player will not output signals from the DIGITAL OUT OPTICAL or COAXIAL connector.

■ DTS

Selects the DTS signals to be output via the DIGITAL OUT OPTICAL and COAXIAL connectors. You cannot select this item when you set "DIGITAL OUT" to "OFF."

- OFF: when the player is connected to an audio component lacking a built-in DTS decoder.
- ON: when the player is connected to an audio component having a built-in DTS decoder.

If the player is connected to an audio component lacking a built-in DTS decoder, do not set this.

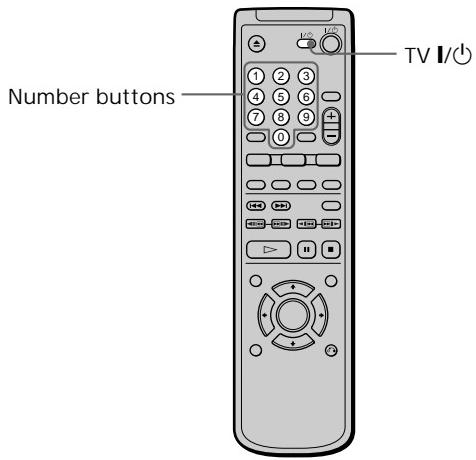
Otherwise, when you play the DTS sound track, a loud noise or no sound will come out from the speakers, affecting your ears or causing the speakers to be damaged.

Note

Select the setting correctly. Otherwise, no sound or a strange sound will come out from the speakers, affecting your ears or causing the speakers to be damaged.

Controlling your TV or AV Receiver (Amplifier) with the Supplied Remote

If you adjust the remote signal, you can control your TV or AV receiver (amplifier) with the supplied remote. Default setting is to control Sony TVs with the  mark.



Controlling TVs or AV receivers (amplifiers) with the remote

Hold down TV  and enter your TV's or AV receiver's manufacturer's code (see the table) using the number buttons. Then release TV .

Code numbers of controllable TVs or AV receivers (amplifiers)

If more than one code number is listed, try entering them one at a time until you find the one that works with your TV or AV receiver (amplifier).

Notes

- If you enter a new code number, the code number previously entered will be erased.
- When you replace the batteries of the remote commander, the code number reset to 01 (Sony). Reset the appropriate code number.

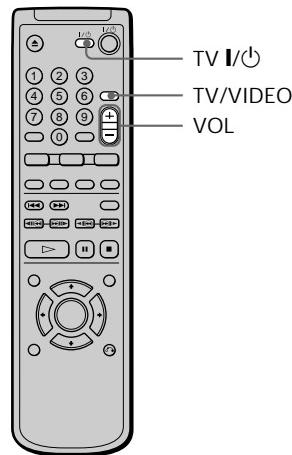
Controlling your TV or AV Receiver (Amplifier) with the Supplied Remote

TV

Manufacturer	Code number
Sony (default)	01
Akai	04
AOC	04
Centurion	12
Coronado	03
Curis-Mathes	12
Daytron	12
Emerson	03, 04, 14
Fisher	11
General Electric	06, 10
Gold Star	03, 04, 17
Hitachi	02, 03
J.C. Penny	04, 12
JVC	09
KMC	03
Magnavox	03, 08, 12
Marantz	04, 13
MGA/Mitsubishi	04, 12, 13, 17
NEC	04, 12

Manufacturer	Code number
Panasonic	06, 19
Philco	03, 04
Philips	08
Pioneer	16
Portland	03
Quasar	06, 18
Radio Shack	05, 14
RCA	04, 10
Sampo	12
Sanyo	11
Scott	12
Sears	07, 10, 11
Sharp	03, 05, 18
Sylvania	08, 12
Teknika	03, 08, 14
Toshiba	07
Wards	03, 04, 12
Yorx	12
Zenith	15

You can control your TV using the keys below.

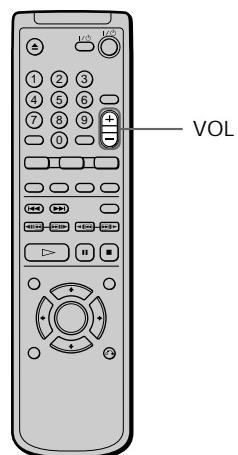


By pressing	You can
TV I/O	Turn the TV on or off
TV/VIDEO	Switch the TV's input source between the TV and other input sources
VOL	Adjust the volume of the TV

Note

Depending on the TV, you may not be able to control your TV or to use some of the buttons above.

You can also change the sound volume of the AV receiver (amplifier) using VOL.



Note

Depending on the AV receiver (amplifier), you may not be able to control your AV receiver (amplifier).

Additional Information

Troubleshooting

If you experience any of the following difficulties while using the player, use this troubleshooting guide to help remedy the problem. Should any problem persist, consult your nearest Sony dealer.

Power

The power is not turned on.

- Check that the AC power cord is connected securely.

Picture

There is no picture.

- Check that the player is connected securely.
- The video connecting cord is damaged. Replace it with a new one.
- Make sure you connect the player to the video input connector on the TV. (page 8)
- Make sure you turn on the TV.
- Make sure you select the video input on the TV so that you can view the pictures from the player.

Picture noise appears.

- Clean the disc.
- If the video signal from your DVD player has to go through your VCR to get to your TV, the copy-protection applied to some DVD programs could affect picture quality. If you still experience problems after checking your connections, please try connecting your DVD player directly to your TV's S video input, if your TV is equipped with this input. (page 8)

Even though you set the aspect ratio in "TV TYPE" in "SCREEN SETUP" of the setup display, the picture does not fill the screen.

- The aspect ratio is fixed on your DVD.

Sound

There is no sound.

- Check that the player is connected securely.
- The audio connecting cord is damaged. Replace it with a new one.
- Make sure you connect the player to the audio input connectors on the receiver (amplifier). (page 10)
- Make sure you turn on the TV and the receiver (amplifier).
- Make sure you select the appropriate input on the receiver (amplifier) so that you can listen to the sound from the player.
- The player is in pause mode or in Slow-motion Play mode. Press ▶ to return to normal play mode.
- The player is in fast forward or fast reverse mode. Press ▶ to return to normal play mode.
- When you play Dolby Digital sound tracks and attempt to output from the DIGITAL OUT connectors, set "DIGITAL OUT" to "ON" in the setup display. Otherwise no sound will come from the DIGITAL OUT connectors. (page 52)
- You selected a VES mode other than "OFF" in the Control Menu display when you connected the component via the DIGITAL OUT OPTICAL or COAXIAL connector. Set "VES" to "OFF" in the Control Menu display. (page 33)
- When you play DTS sound tracks, no sound will come out from the AUDIO OUT connectors. (page 17)

Sound is noisy.

- Clean the disc.
- When you play a CD with DTS sound tracks, sound noise will come from the AUDIO OUT connectors. (page 17)

Sound distortion occurs.

- In the setup display, set "AUDIO ATT" in "AUDIO SETUP" to "ON."

The sound loses its stereo effect when you play a VIDEO CD or a CD.

- Set "AUDIO" to "STEREO" in the Control Menu display. (page 30)
- Make sure you connect the player correctly. (page 8, 10, 12)

The surround effect is difficult to hear when you are playing a Dolby Digital sound track.

- Depending on the DVD, the output signal may not be the entire 5.1 channels. It may be monaural or stereo even if the sound track is recorded in Dolby Digital format.

Operation

The remote does not function.

- Remove any obstacles between the remote and the player.
- Use the remote near the player.
- Point the remote at the remote sensor  on the player.
- Replace all of the batteries in the remote with new ones if they are weak.

The disc does not play.

- There is no disc inside ("Insert disc." appears on the TV screen).
Insert a disc.
- Insert the disc correctly with the playback side facing down on the disc tray.
- Clean the disc.
- The player cannot play CD-ROMs, etc. (page 5)
Insert a DVD, a VIDEO CD, or CD.
- Check the region code of the DVD. (page 4)
- Moisture has condensed inside the player. Remove the disc and leave the player turned on for about half an hour. (page 6)

The player does not play from the beginning when playing a disc.

- Program Play, Shuffle Play, Repeat Play or A-B Repeat Play has been selected. Press CLEAR. (pages 37 through 42)
- Resume Play has been selected.
Press ■ on the front panel or on the remote before you start playing. (page 19)
- A title menu or a DVD menu automatically appears on the TV screen when you play your DVD, or a setup display automatically appears on the TV screen when you play your VIDEO CD with PBC functions.

The player starts playing the disc automatically.

- The DVD features the auto playback function.
"AUTO PLAY" in "CUSTOM SETUP" is set to "TIMER." (page 48)

Playback stops automatically.

- The disc may contain an auto pause signal. While playing such a disc, the player stops playback at the signal.

You cannot perform some functions such as Stop, Search, Slow-motion Play, Repeat Play, Shuffle Play or Program Play.

- Depending on the disc, you may not be able to do some of the operations above.

Messages do not appear on the TV screen in the language you want.

- In the setup display, select the desired language for the on-screen display in "OSD" under "LANGUAGE SETUP." (page 46)

The language for the sound track cannot be changed when you play a DVD.

- Multilingual tracks are not recorded on the DVD.
- Changing the language for the track is prohibited on the DVD.

The subtitle language cannot be changed when you play a DVD.

- Multilingual subtitles are not recorded on the DVD.
- Changing the language for the subtitles is prohibited on the DVD.

The subtitles cannot be turned off when you play a DVD.

- Depending on the DVD, you may not be able to turn the subtitles off.

The angles cannot be changed when you play a DVD.

- Multi-angles are not recorded on the DVD.
- Change the angles when "ANGLE" appears on the front panel display. (page 32)
- Changing the angles is prohibited on the DVD.

The player does not operate properly.

- Static electricity, etc., may affect the player's operation.
Disconnect the AC power cord once, then connect it again.

Nothing is displayed on the front panel display.

- In the set up display, "DIMMER" in "CUSTOM SETUP" is set to "OFF."
Set "DIMMER" to "BRIGHT" or "DARK." (page 48)

5 numbers or letters are displayed on the screen and on the front panel display.

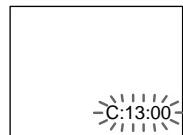
- The self-diagnosis function was activated. See the table on page 58.

The disc tray does not open and "LOCKED" is displayed on the front panel display.

- Contact your Sony dealer or local authorized Sony service facility.

Self-diagnosis function

When the self-diagnosis function activates to prevent the player from malfunctioning, a five-character service number (combination of a letter and digits) flashes on the screen and on the front panel display. In this case, check the following table.



First three characters	Cause and/or Corrective Action
C13	<ul style="list-style-type: none">The disc is dirty. → Clean the disc with a cleaning cloth. (page 6)
C31	<ul style="list-style-type: none">The disc is not inserted correctly. → Open the disc tray and insert the disc correctly.
Exx (xx is any number)	<ul style="list-style-type: none">To prevent a malfunction, the player has performed the self-diagnosis function. → When you contact your Sony dealer or local authorized Sony service facility, give the 5-character service number. (example: E:61:10)

Specifications

CD/DVD player

Laser Semiconductor laser
Signal format system NTSC

Audio characteristics

Frequency response
DVD (PCM 96 kHz): 2 Hz to 44 kHz (± 1 dB)*
DVD (PCM 48 kHz): 2 Hz to 22 kHz (± 0.5 dB)
CD: 2 Hz to 20 kHz (± 0.5 dB)

Signal-to-noise ratio
More than 110 dB (AUDIO OUT connectors only)

Harmonic distortion
Less than 0.003 %

Dynamic range
More than 100 dB (DVD)
More than 97 dB (CD)

Wow and flutter
Less than detected value
(± 0.001 % W PEAK)

Outputs

	Jack type	Output level	Load impedance
AUDIO OUT	Phono jacks	2 Vrms (at 50 kilohms)	Over 10 kilohms
DIGITAL OUT (OPTICAL)	Optical output connector	-18 dBm	Wave length: 660 nm
DIGITAL OUT (COAXIAL)	Phono jack	0.5 Vp-p	75 ohms terminated
VIDEO OUT	Phono jack	1.0 Vp-p	75 ohms, sync negative
S VIDEO OUT	4-pin mini DIN	Y: 1.0 Vp-p C: 0.286 Vp-p	75 ohms, sync negative 75 ohms terminated
COMPONENT VIDEO OUT (Y, Pb/B-Y, Pr/R-Y)	Phono jacks	Y: 1.0 Vp-p PB/B-Y: PR/R-Y: 0.7 Vp-p	75 ohms, sync negative 75 ohms

General

Power requirements
120 V AC, 60 Hz

Power consumption
13 W

Dimensions (approx.)
430 × 69 × 252 mm
(17 × 2 3/4 × 10 in.) (w/h/d)
incl. projecting parts

Mass (approx.)
2.8 kg (6 lb 3 oz)

Operating temperature
41 °F to 95 °F
(5 °C to 35 °C)

Operating humidity
25 % to 80 %

Supplied accessories

See page 7.

* The signals from AUDIO OUT connectors are measured. When you play PCM sound tracks with a 96 kHz sampling frequency, the output signals from the DIGITAL OUT (OPTICAL, COAXIAL) are converted to 48 kHz (sampling frequency).

Design and specifications are subject to change without notice.

Glossary

Bit rate (page 35)

Value indicating the amount of video data compressed in a DVD per second. The unit is Mbps (Mega bit per second). 1 Mbps indicates that the data per second is 1,000,000 bits. The higher the bit rate, the larger the amount of data. However, this does not always mean that you can get higher quality pictures.

Chapter (page 5)

Sections of a picture or a music piece on a DVD that are smaller than titles. A title is composed of several chapters. Each chapter is assigned a chapter number enabling you to locate the chapter you want.

Digital Cinema Sound (DCS) (page 33)

The general name of technology that Sony developed to enjoy surround sound in a home. It simulates the sound of a movie editing studio instead of the usual concert hall so that you can enjoy the surround sound of a movie theater in the comfort of your own home. The VES (Virtual Enhanced Surround) system contained in DCS programs can create the sound image of virtual rear speakers from the sound of the front speakers (L, R) without using actual rear speakers.

Dolby Digital (pages 10, 52)

Digital audio compression technology developed by Dolby Laboratories. This technology conforms to 5.1-channel surround sound. The rear channel is stereo and there is a discrete subwoofer channel in this format. Dolby Digital provides the same 5.1 discrete channels of high quality digital audio found in Dolby Digital cinema audio systems. Good channel separation is realized because all of the channel data is recorded discretely and processed in digital.

Dolby Pro Logic (page 52)

Audio signal processing technology that Dolby Laboratories developed for surround sound. When the input signal contains a surround component, the Pro Logic process outputs the front, center and rear signals. The rear channel is monaural.

DTS (pages 12, 53)

Digital audio compression technology that Digital Theater Systems, Inc. developed. This technology conforms to 5.1-channel surround. The rear channel is stereo and there is a discrete subwoofer channel in this format. DTS provides the same 5.1 discrete channels of high quality digital audio. Good channel separation is realized because all of the channel data is recorded discretely and processed in digital.

DVD (page 4)

A disc that contains up to 8 hours of moving pictures even though its diameter is the same as a CD.

The data capacity of a single-layer and single-sided DVD is 4.7 GB (Giga Byte) which is 7 times that of a CD. The data capacity of a dual-layer and single-sided DVD is 8.5 GB, a single-layer and double-sided DVD is 9.4 GB, and a dual-layer and double-sided DVD is 17 GB.

The picture data uses the MPEG 2 format, one of the worldwide standards of digital compression technology. The picture data is compressed to about 1/40 of its original size. The DVD also uses a variable rate coding technology that changes the data to be allocated according to the status of the picture.

Audio data is recorded in Dolby Digital as well as in PCM, allowing you to enjoy a more real audio presence. Furthermore, various advanced functions such as the multi-angle, multilingual, and Parental Control functions are provided with the DVD.

Multi-angle function (page 32)

Various angles for the scene (viewpoints of the video camera) are recorded on some DVDs.

Multilingual function (pages 14, 32, 46)

Several languages for the audio track or sub-titles in a picture are recorded on some DVDs.

Parental Control (page 48)

A function of the DVD used to limit playback of the disc according to the age of the user and the limitation level in each country. The limitation varies from disc to disc; when it is activated, playback is completely prohibited, violent scenes are skipped or replaced with other scenes, and so on.

Playback Control (PBC) (page 21)

Signals encoded on VIDEO CDs (Version 2.0) to control playback.

By using menus recorded on VIDEO CDs with PBC functions, you can enjoy playing simple interactive programs, programs with search functions, and so on.

Title (page 5)

The longest section of a picture or a music piece on a DVD; a movie, etc., for a picture piece on video software; or an album, etc., for a music piece on audio software. Each title is assigned a title number enabling you to locate the title you want.

Track (page 5)

Sections of a picture or a music piece on a CD or VIDEO CD. Each track is assigned a track number enabling you to locate the track you want.

VIDEO CD (page 4)

A compact disc that contains moving pictures.

The picture data uses the MPEG 1 format, one of the worldwide standards of digital compression technology.

The picture data is compressed to about 1/140 of its original size. Consequently, a 12 cm VIDEO CD can contain up to 74 minutes of moving pictures.

VIDEO CDs also contain compact audio data. Sounds outside the range of human hearing are compressed while the sounds we can hear are not compressed. VIDEO CDs can hold 6 times the audio information of conventional audio CDs.

There are 2 versions of VIDEO CDs.

- Version 1.1: You can play only moving pictures and sounds.
- Version 2.0: You can play high-resolution still pictures and enjoy PBC functions.

This player conforms to both versions.

Language Code List

For details, see page 32, 46.

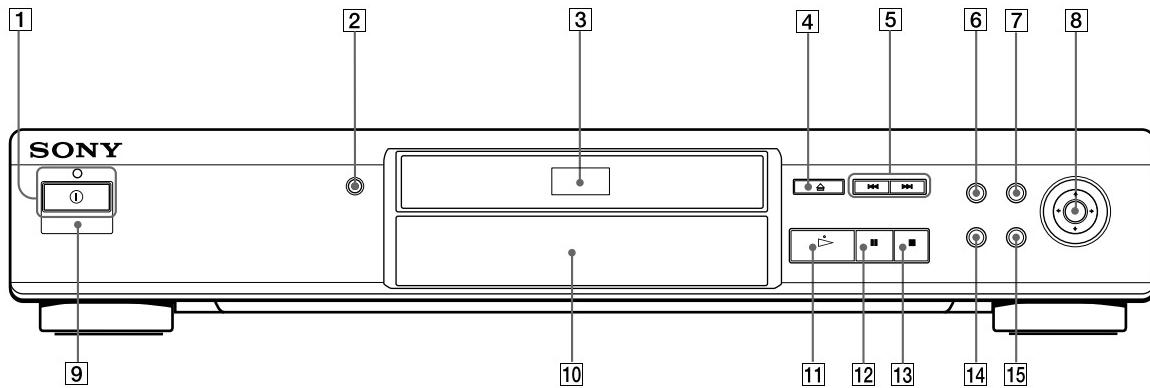
The language spellings conform to the ISO 639: 1988 (E/F) standard.

Code	Language	Code	Language	Code	Language	Code	Language
1027	Afar	1186	Scots Gaelic	1350	Malayalam	1513	Siswati
1028	Abkhazian	1194	Galician	1352	Mongolian	1514	Sesotho
1032	Afrikaans	1196	Guarani	1353	Moldavian	1515	Sundanese
1039	Amharic	1203	Gujarati	1356	Marathi	1516	Swedish
1044	Arabic	1209	Hausa	1357	Malay	1517	Swahili
1045	Assamese	1217	Hindi	1358	Maltese	1521	Tamil
1051	Aymara	1226	Croatian	1363	Burmese	1525	Telugu
1052	Azerbaijani	1229	Hungarian	1365	Nauru	1527	Tajik
1053	Bashkir	1233	Armenian	1369	Nepali	1528	Thai
1057	Byelorussian	1235	Interlingua	1376	Dutch	1529	Tigrinya
1059	Bulgarian	1239	Interlingue	1379	Norwegian	1531	Turkmen
1060	Bihari	1245	Inupiak	1393	Occitan	1532	Tagalog
1061	Bislama	1248	Indonesian	1403	(Afan) Oromo	1534	Setswana
1066	Bengali; Bangla	1253	Icelandic	1408	Oriya	1535	Tonga
1067	Tibetan	1254	Italian	1417	Punjabi	1538	Turkish
1070	Breton	1257	Hebrew	1428	Polish	1539	Tsonga
1079	Catalan	1261	Japanese	1435	Pashto; Pushto	1540	Tatar
1093	Corsican	1269	Yiddish	1436	Portuguese	1543	Twi
1097	Czech	1283	Javanese	1463	Quechua	1557	Ukrainian
1103	Welsh	1287	Georgian	1481	Rhaeto-Romance	1564	Urdu
1105	Danish	1297	Kazakh	1482	Kirundi	1572	Uzbek
1109	German	1298	Greenlandic	1483	Romanian	1581	Vietnamese
1130	Bhutani	1299	Cambodian	1489	Russian	1587	Volapük
1142	Greek	1300	Kannada	1491	Kinyarwanda	1613	Wolof
1144	English	1301	Korean	1495	Sanskrit	1632	Xhosa
1145	Esperanto	1305	Kashmiri	1498	Sindhi	1665	Yoruba
1149	Spanish	1307	Kurdish	1501	Sangho	1684	Chinese
1150	Estonian	1311	Kirghiz	1502	Serbo-Croatian	1697	Zulu
1151	Basque	1313	Latin	1503	Singhalese	1703	Not specified
1157	Persian	1326	Lingala	1505	Slovak		
1165	Finnish	1327	Laothian	1506	Slovenian		
1166	Fiji	1332	Lithuanian	1507	Samoan		
1171	Faroese	1334	Latvian; Lettish	1508	Shona		
1174	French	1345	Malagasy	1509	Somali		
1181	Frisian	1347	Maori	1511	Albanian		
1183	Irish	1349	Macedonian	1512	Serbian		

Index to Parts and Controls

Refer to the pages indicated in parentheses for details.

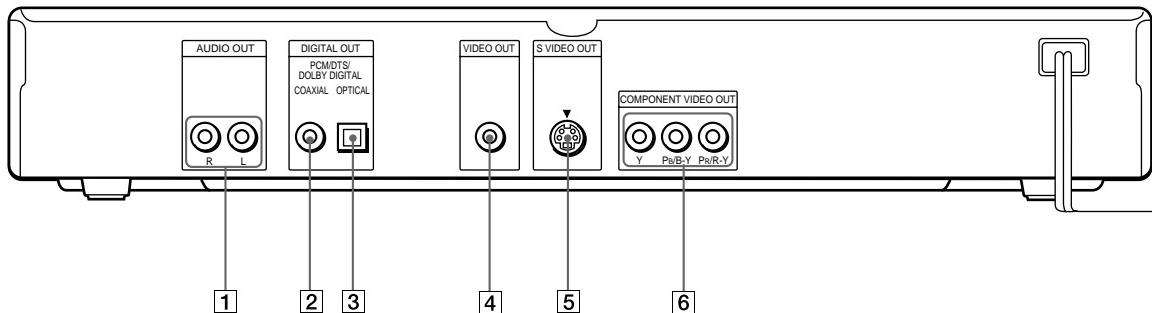
Front Panel



- [1] ① (power) button and indicator (16)
Disconnects the power of the player or places the player in standby mode.
- [2] VES (Virtual Enhanced Surround) button and indicator (33)
Press to select the desired "VES" item. The indicator lights up for every selected item except "OFF."
- [3] Disc tray (16)
Place a disc on the tray.
- [4] ▲OPEN/CLOSE button (16)
Opens or closes the disc tray.
- [5] ▶◀/▶▶/PREV/NEXT (previous/next) buttons (17)
Press to go to the next chapter or track, or to go back to the previous chapter or track.
- [6] TITLE button (20)
Displays the title menu on the TV screen.
- [7] DVD MENU button (20)
Displays the DVD menu on the TV screen.

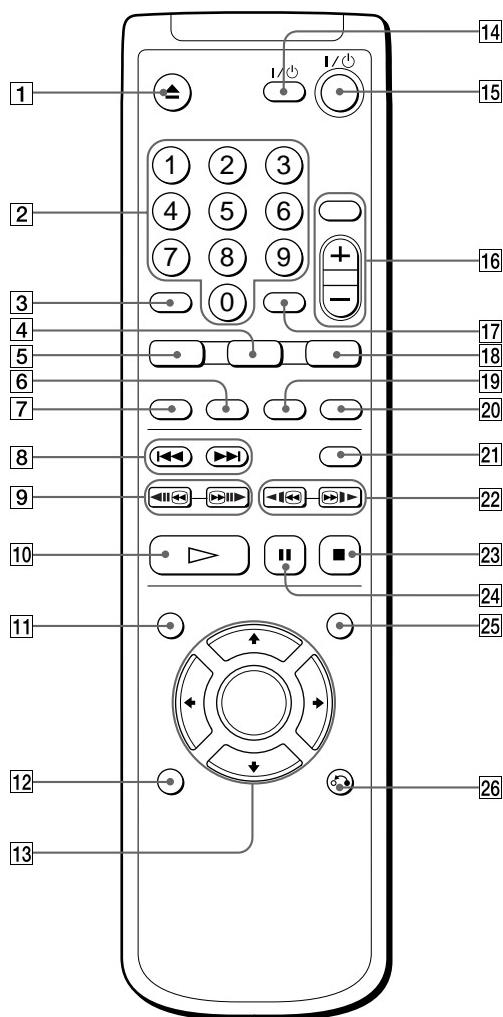
- [8] ←/↑/↓/→/ENTER button
Selects and executes the items or settings.
- [9] (remote sensor) (7)
Accepts the remote control signals.
- [10] Front Panel Display (22)
Indicates the playing time, etc.
- [11] ▶ (play) button (16)
Plays a disc.
- [12] ■ (pause) button (17)
Pauses playing a disc.
- [13] ■ (stop) button (17, 19)
Stops playing a disc.
- [14] DISPLAY button (24)
Displays the Control Menu display on the TV screen to set or adjust the Control Menu items.
- [15] ⌂RETURN button (21, 25)
Press to return to the previously selected screen, etc.

Rear Panel



- 1** AUDIO OUT R (right)/L (left) connectors (8, 10)
Connect to the audio input connector on your TV or receiver (amplifier).
- 2** DIGITAL OUT COAXIAL connector (10, 12)
Connect to an audio component using a coaxial digital connecting cord.
- 3** DIGITAL OUT OPTICAL connector (10, 12)
Connect to an audio component using an optical digital connecting cord. Take off the cap.
- 4** VIDEO OUT connector (8)
Connect to the video input connector on your TV or monitor.
- 5** S VIDEO OUT connector (8, 10)
Connect to the S video input connector on your TV or monitor.
- 6** COMPONENT VIDEO OUT connectors (9)
Connect to a monitor or projector having component video input connectors (Y, Pb/B-Y, Pr/R-Y) that conform to output signals from the player.

Remote



- 1** ▲OPEN/CLOSE button (17)
Opens or closes the disc tray.
- 2** Number buttons
Selects the items or settings.
- 3** CLEAR button (27, 38)
Press to return to continuous play, etc.
- 4** ANGLE button (33)
Changes the angles when playing a DVD.
- 5** AUDIO button (30)
Changes the sound while playing a DVD or VIDEO CD.
- 6** PROGRAM button (39)
Displays the "PROGRAM" display on the TV screen.
- 7** SHUFFLE button (40)
Changes the "SHUFFLE" mode.
- 8** ▶◀/▶▶IPREV/NEXT (previous/next) buttons (17)
Press to go to the next chapter or track, or to go back to the previous chapter or track.

- 9** ◀◀/▶▶ SEARCH/STEP buttons (18)

While monitoring the picture, keep pressing to locate a point quickly or press sequentially to play a disc frame by frame.

- 10** ▶PLAY button (16)

Plays a disc.

- 11** TITLE button (20)

Displays the title menu on the TV screen.

- 12** DISPLAY button (24)

Displays the Control Menu display on the TV screen to set or adjust the items.

- 13** ◀/↑/↓/▶/ENTER buttons

Selects and executes the items or settings.

- 14** TV I/Ø (television on/standby) button (53)

Turns on and off the power of the TV.

- 15** I/Ø (on/standby) button (17)

Press to turn on the player or place it in standby mode after power is connected by pressing ① on the player.

- 16** TV (television)/AV receiver (amplifier) operation buttons (53)

Controls TVs or AV receivers (amplifiers).

- 17** ENTER button

Executes the items or settings.

- 18** SUBTITLE button (32)

Changes the subtitles when playing a DVD.

- 19** REPEAT button (41)

Changes the "REPEAT" mode.

- 20** A-B button (42)

Displays the "A-B REPEAT" display on the TV screen.

- 21** TIME/TEXT button (22)

Displays the playing time of the disc, etc., on the front panel display.

- 22** ◀◀/▶▶ SCAN/SLOW buttons (18)

Locate a point quickly while monitoring the picture or play a disc in slow motion.

- 23** ■STOP button (17, 19)

Stops playing a disc.

- 24** ■PAUSE button (17)

Pauses playing a disc.

- 25** DVD MENU button (20)

Displays the DVD menu on the TV screen.

- 26** ⌂RETURN button (21, 25)

Press to return to the previously selected screen, etc.

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